ORDER NO. VRD9501M104

Service Manual

Video Cassette Recorder

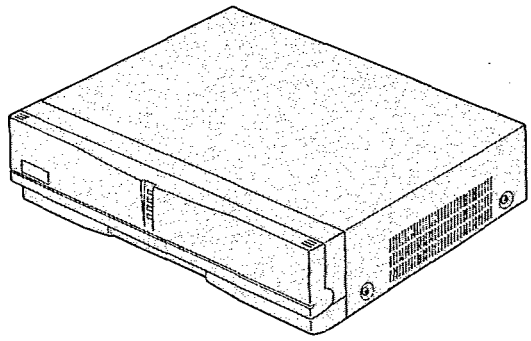
General Description
Adjustment Procedures
Block / Schematic Diagrams
Exploded Views / Parts List

Panasonic S-VHS VHS PAL 625

Hi-Fi HQ

NV-HS800B/EC

K-MECHANISM



SPECIFICATIONS

ITEM	SPECIFICATION	
POWER	SOURCE: 220−240 V AC 50/60 Hz	
	CONSUMPTION: 37 watts	
RECORDING SYSTEM	2 rotary heads, helical scanning system	
	PAL	
TV TUNER SYSTEM	NV-HS800B	UHF: CH21~CH69 (PAL I) 75Ω terminated
	NV-HS800EC	VHF: CHE2~CHS3 VHF III: CHM1~CHE12 VHF H: CHU1~CHS41 (PAL B) UHF: CH21~CH69 (PAL G) 75Ω terminated
RF OUT SYSTEM	NV-HS800B	UHF: 36±6 (PAL I) 73±3 dBμ, 75Ω terminated
	NV-HS800EC	UHF: 36±4 (PAL G) 70^{+3}_{-5} dBμ, 75Ω terminated
VIDEO	HEADS: 4 rotary heads 1 pair for SP recording, playback and trick play (L-R heads) 1 pair for LP recording, playback and trick play (L′-R′ heads) 1 flying erase head	
	INPUT: EURO AV (AV1, AV2) Connectors (21 pin) 1.0 Vp-p, 75Ω unbalanced S-VIDEO IN (AV3) Connector Y: 1.0 Vp-p, 75Ω unbalanced C: 0.3 Vp-p, 75Ω unbalanced VIDEO IN (AV3) Connector (Phono type) 1.0 Vp-p, 75Ω unbalanced	
	OUTPUT: EURO AV (AV1, AV2) Connectors (21 pin) 1.0 Vp-p, 75Ω unbalanced S-VIDEO OUT Connector Y: 1.0 Vp-p, 75Ω unbalanced C: 0.3 Vp-p, 75Ω unbalanced VIDEO OUT Connector (Phono type) 1.0 Vp-p, 75Ω unbalanced	

ITEM	SPECIFICATION
AUDIO	HEAD: 1 stationary head (Normal Audio) 2 rotary heads (Hi-Fi 2CH)
	INPUT: EURO AV (AV1, AV2) Connectors (21 pin) More than −6 dBV (500 mV), More than 10 kΩ AUDIO IN (AV3) Connector (Phono type) More than −10 dBV (316 mV), More than 47 kΩ MICROPHONE JACK −70 dBV
	OUTPUT: EURO AV (AV1, AV2) Connectors (21 pin) −6 dBV (500 mV), Less than 1 kΩ AUDIO OUT Connector (Phono type) −8 dBV (400 mV), Less than 1 kΩ HEADPHONE JACK −30 dBV, 8Ω
	TRACK: 1 track (Normal-mono only) 2 channels (Hi-Fi Sound-Stereo)
TAPE FORMAT	S-VHS, VHS Cassette tape (Tape width 12.7 mm)
TAPE SPEED	SP: 23.39 mm/s (PAL), 33.35 mm/s (NTSC) LP: 11.695 mm/s (PAL), 11.12 mm/s (NTSC) Record/Playback Time: SP: 4 hours with 240 min. type tape LP: 8 hours with 240 min. type tape FF/REW Time: 2.5 min. with 180 min. type tape
DIMENSIONS	430 (W) × 118 (H) × 395 (D) mm
WEIGHT	7.2 kg
STANDARD ACCESSORIES	1 pc. DIN-RF Cable 1 pc. Infra-red Remote Controller 1 pc. Audio Cables 1 pc. AC Mains Lead 1 pc. S-VIDEO 4P Cable

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.

Panasonic

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⚠ **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

INTRODUCTION

This service manual contains technical information which will allow service personnels to understand and service this model.

Section 1 presents you with technical know how for actual servicing and general information of features and controls, enabling you to become familiar with each function.

Section 2 presents to your mechanical and electrical adjustment information as well disassembly and replacement procedures.

In the case of very common information relating to other models like mechanical adjustments, please refer to the appropriate service manual.

Section 3, 4 contains block diagrams which provides you with information for checking and understanding each circuit. Schematic diagrams which give you detailed information such as waveforms, voltage data, function e.t.c. ...

Section 5 contains exploded views and parts list.

Please place orders using the parts list and not the drawing reference numbers.

If the circuit is changed or modified, this information will be followed by supplementary service manual to be filed with original service manual.

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Technical Information

Subject: How to install the PDC DECODER (VW-PDC1E)

1. Do not connect the video recorder to the AC outlet.
2. Remove the 4 screws (A) and the Top Panel. (Fig. P1)
3. Remove the 3 screws (B), 2 screws (C) and unlock the tab (D). (Fig. P2)
4. Lift the Main C.B.A. up side down and lie it on the Cassette Compartment.
   Insert the PDC Decoder. (Fig. P3)

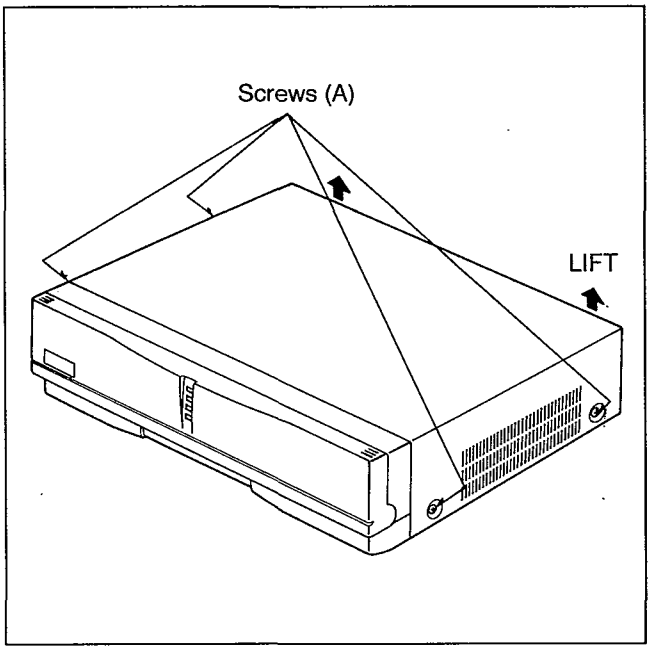


Fig. P1

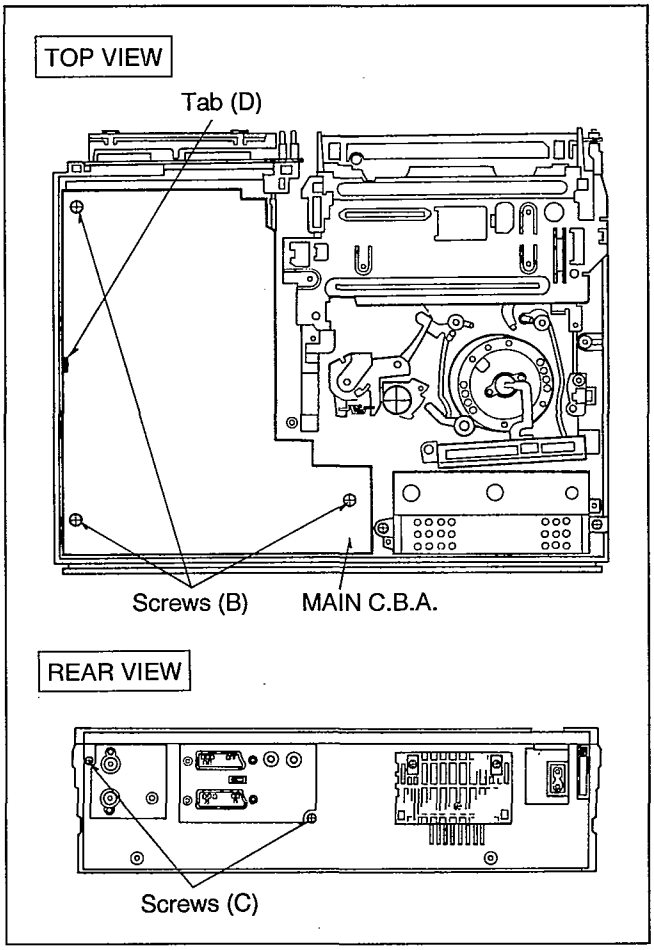


Fig. P2

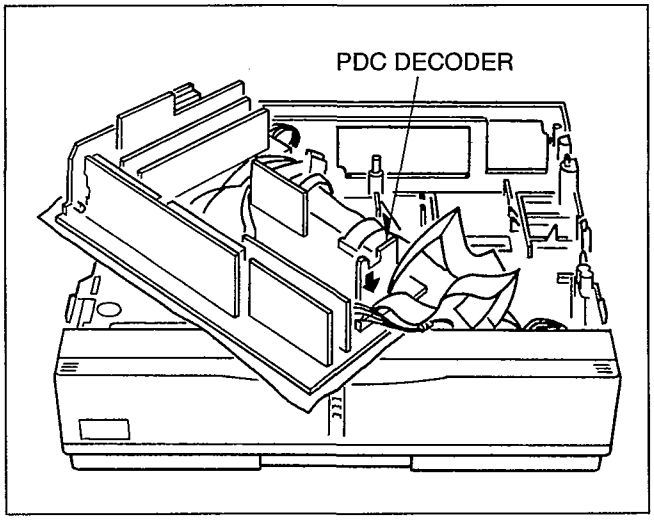


Fig. P3

SECTION 1
GENERAL DESCRIPTIONS

1-1. SERVICE INFORMATION

1-1-1. K-MECHANISM INFORMATION

A. SERVICE POSITION

When servicing the K-Mechanism, the Mechanism can easily be fixed by standing the Mechanism up in the Main Frame as shown below to check easily.

In this position, the following services are possible.

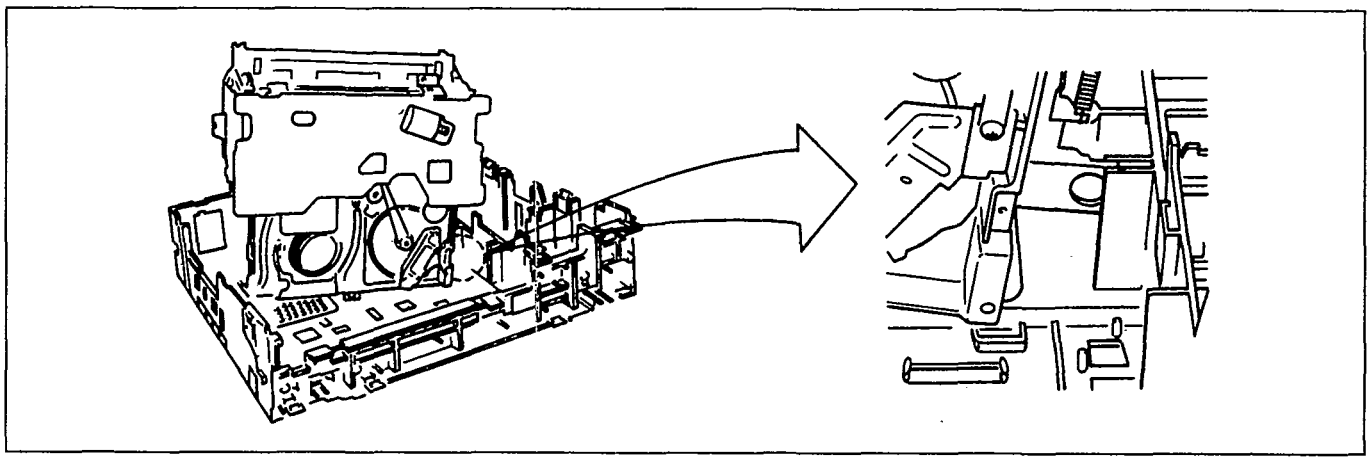


Fig. S1

A-1. CHECKING OF GEAR PHASE ALIGNMENT CONDITION

1) Remove the Mechanism Connection C.B.A.
2) Check gear phase Alignment Condition of Mechanism described on the bottom side of Frame.

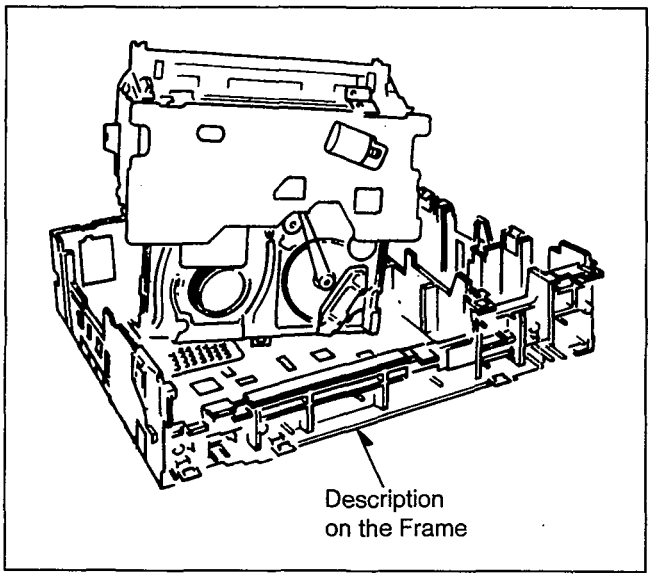


Fig. S2

A-2. CHECKING OF LOADING/UNLOADING OPERATION

There are 3 methods for manual operation of loading/unloading operation as follows.

1. HAND OPERATION
   1) Remove the Mechanism Connection C.B.A.
   2) Turn the Worm Gear or the WORM WHEEL GEAR (Remove the Loading Motor Unit) manually.

2. BATTERY OPERATION
   1) Remove the Mechanism Connection C.B.A.
   2) Connect the Battery (Manganes-Type R6 (AA) 3pcs./+4.5V) to the Loading Motor terminals.

3. SERVICE INFORMATION DISPLAY OPERATION
   1) Set the Service Information Display mode. (Press the "FF", "REW" and "EJECT" buttons simultaneously.)
   2) Press the "FF", "REW" and "EJECT" buttons 7 times to set the Service Mode 7. (The end of display on the Display becomes "--".)
   3) In the above Service Information Display mode, the Loading Motor rotates for Loading operation when the "PLAY" button is pressed. The Loading Motor rotates for unloading operation when the "STOP" button is pressed.

Remark:
Use the "SERVICE INFORMATION DISPLAY" mode for a final check of mechanism movement.

A-3. CHECKING OF REEL GEARS OPERATION

1) Remove the Mechanism Connection C.B.A.
2) Move the mechanism to "PLAY" position by loading operation. (Refer to <A-2>)
3) Turn the "Rotor Unit" to check movement of reel gears.

B. CYLINDER UNIT REPLACEMENT

The Cylinder Unit can be replaced easily by the following method.

1) Remove the Top Panel.
2) Remove the 3 screws of the Cylinder Unit with a magnetized screw driver through the holes on the Bottom Plate as shown in Fig. S3.

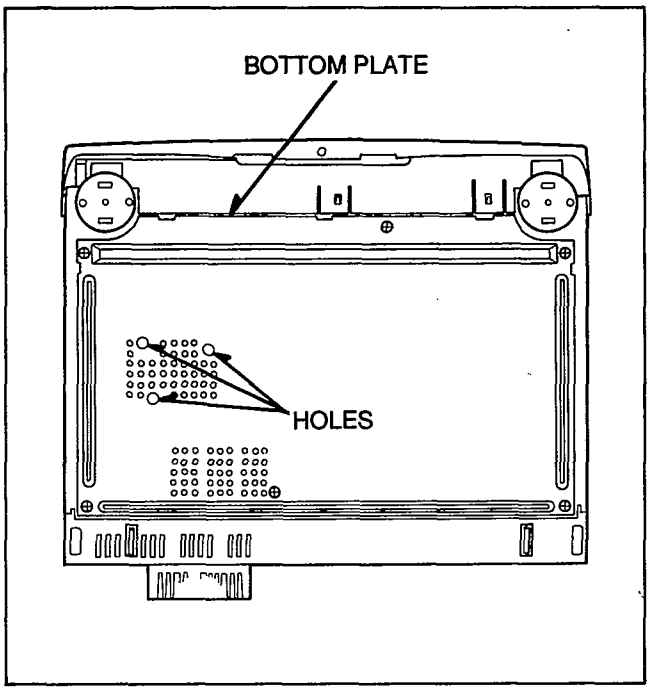


Fig. S3

C. CAPSTAN STATOR UNIT ASSEMBLY

When replacing the CAPSTAN STATOR UNIT, the CENTRE FIXING TOOL (VFK0851) must be used to fix the centre of CAPSTAN STATOR UNIT.

Method:

1) Place the CAPSTAN STATOR UNIT into position.
2) Loosely tighten the 3 screws.
3) Insert the CENTRE FIXING TOOL (VFK0851) as shown in Fig. S4.
4) Tighten the 3 screws.
5) Remove the CENTRE FIXING TOOL.

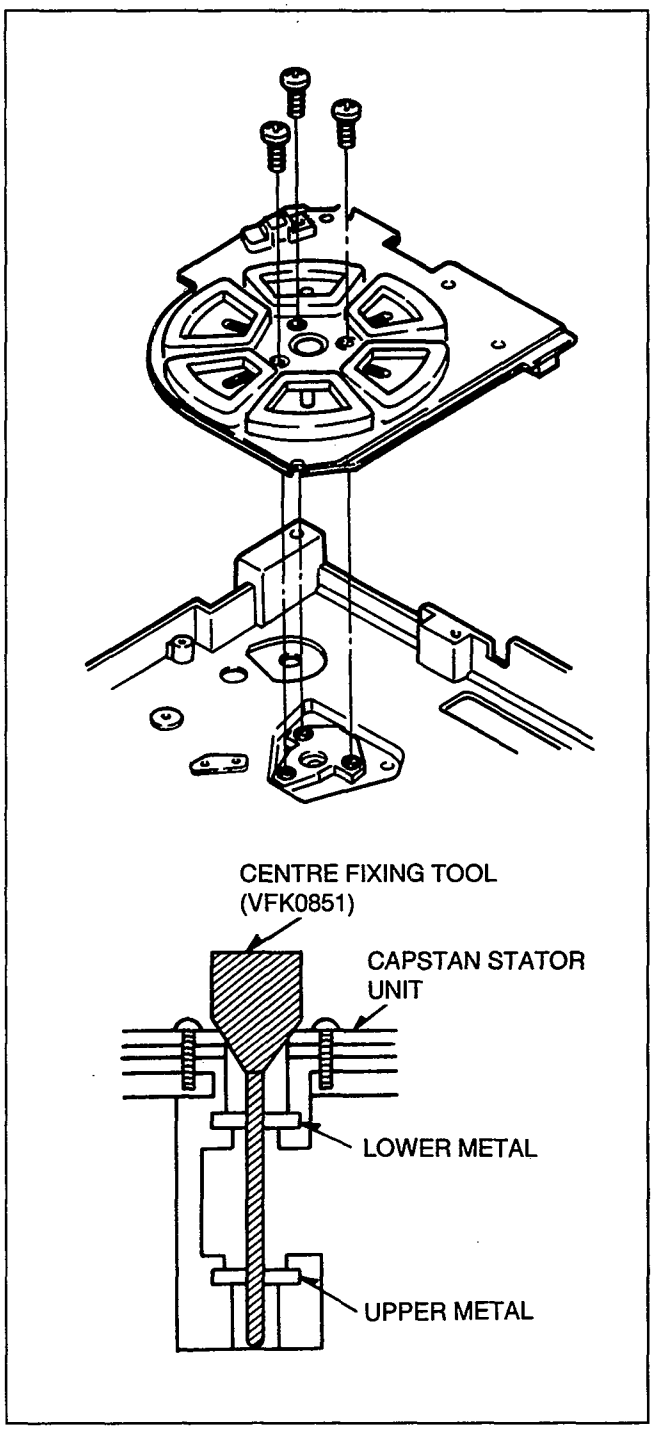


Fig. S4

D. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

<NOTE>
If the Eject operation is performed without the cassette carriage installed while repairing or making the mechanical phase alignment, the main cam gear will not engage with the carriage connection gear and will not rotate.
To perform the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

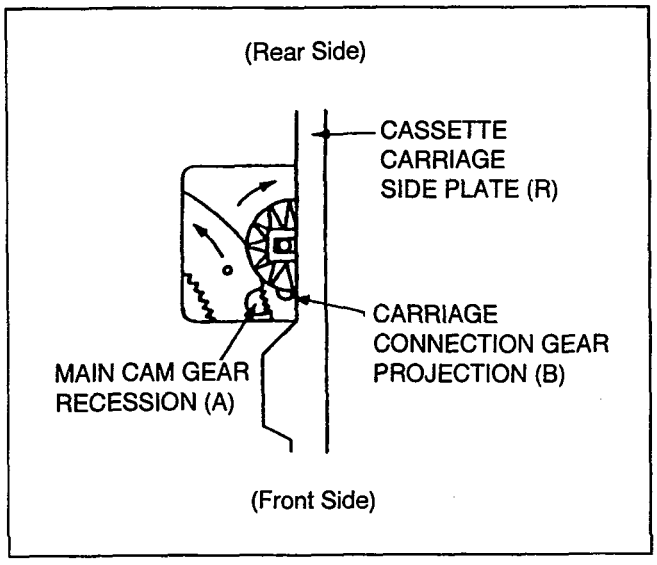


Fig. S5 Top View of Eject Operation

E. TAKE-UP PHOTO SENSOR OPERATION

Note the following matters for Take-up Photo Sensor Operation.

1) While servicing of the K-Mechanism, the unit will not operate properly if a strong light (ex, Fluorescent light, Spot light) falls on the Take-up Photo Sensor. In this case, cover the Take-up Photo Sensor to prevent the light from falling on it.
2) While servicing of the K-Mechanism with "Power On" and without cassette tape inserted, the Unit does not operate properly.

F. POWER TRANSISTOR SERVICING

When removing the connector of the Power Transistor, hold the Power Transistor by hand to prevent damage.

1-1-2. REMOVAL OF THE CASSETTE TAPE

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to remove the cassette manually. There are 2 methods of removing the cassette.

1. HAND OPERATION

1) Remove the bottom plate.
2) Turn the WORM GEAR to "A" arrow mark direction manually as shown in Fig. S6, moving the LOADING POST to the unloaded position.
3) Turn the CAPSTAN clockwise to take up the tape.
4) **Turn the WORM GEAR again to eject the cassette.**

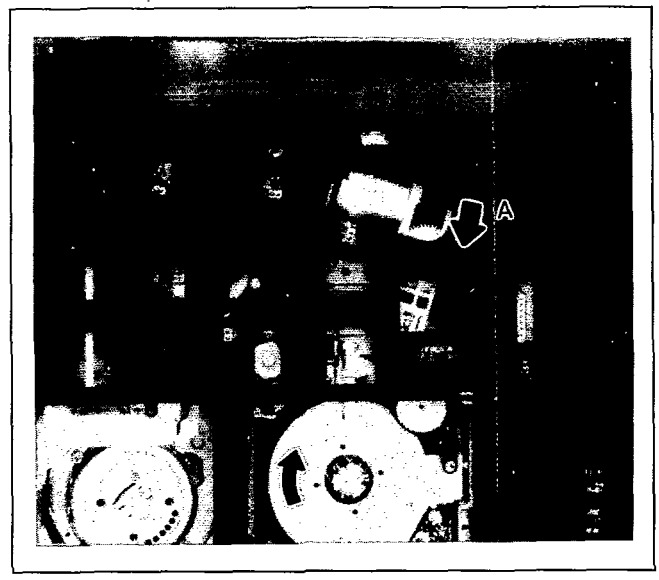


Fig. S6

2. BATTERY OPERATION

1) Connect the Battery (Manganes-Type R6 (AA) 3pcs./ +4.5V) to P1503 as shown in Fig. S7.
2) After moving the LOADING POST to the unloaded position, disconnect the battery to stop the motor.
3) Turn the CAPSTAN to clockwise to take up the tape.
4) Reconnect the battery to eject the cassette.

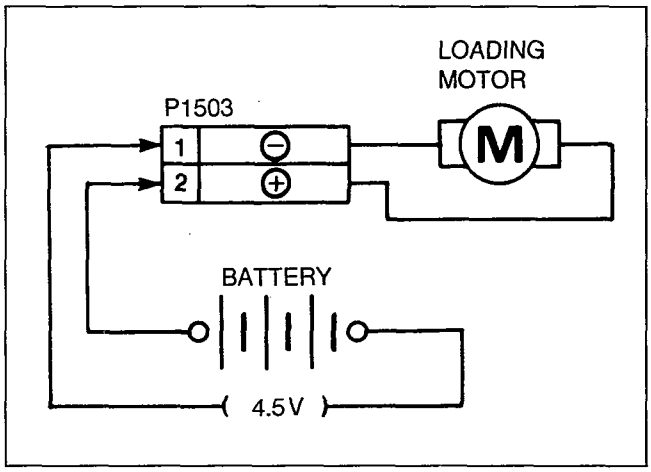


Fig. S7

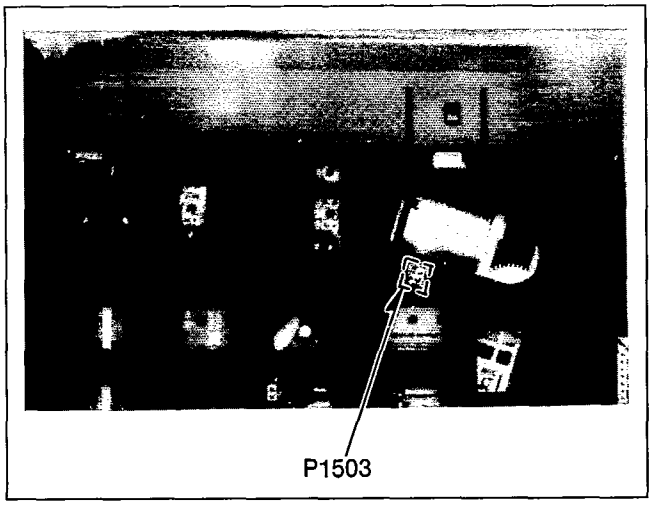


Fig. S8

If the cassette tape can not be removed by the above 2 methods, remove it by the following method.

1) Remove the Top Panel.
2) Remove the Front Panel Unit.
3) Lift up the Pinch Arm after removing spring.
4) Push the P5 Arm and remove the cassette tape from tape transportation (P1, P2, P3 and P5 Posts).
5) Turn the Capstan Motor to take up the tape.
6) Remove 1 screw from the Side Plate (R) Unit to disconnect the Rack Gear from the Carriage Connection Gear.
7) Take out the cassette tape from the Cassette Compartment.

1-1-3. FLAT CARD CABLE INSTLLATION

When installing the Flat Card Cable on the connector, install the Flat Card Cable with the cable contacts facing the connector contacts.

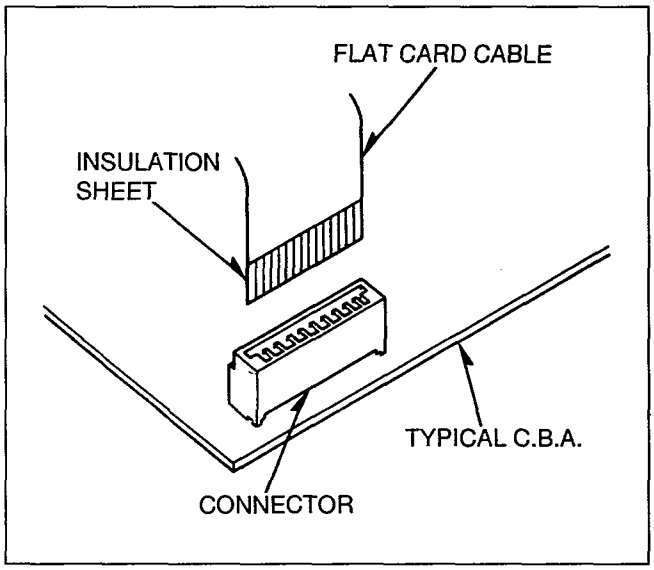


Fig. S9

1-1-4. CHANNEL MEMORY IC INITIALIZATION

When replacing the channel memory IC7503 (XLJ9021B), its IC should be initialized.

Note:1) It should be performed before tuning.
2) Do not turn off the power source during initialization or 1 second after.
3) Meaning of "INITIALIZATION" is to erase the "SKIP CH" In other words the number of channel position is the same as displayed channel.

Method:
1) Press the CH UP/DOWN Button so that the channel indicator indicates "3".
2) Connect a jumper wire between Pin 54 and Pin 35 of IC7501 for more than 1 second.
3) Channel indication changes from "3" to "1".

1-1-5. SERVICING THE PACK C.B.A.

When servicing the CAP Drive Pack C.B.A., Sub Audio Pack C.B.A., Luminance & Chrominance Pack C.B.A., Sub Luminance & Chrominance Pack C.B.A. and TV Demodulator Pack C.B.A., connections of extention cable are necessary as shown below.

PART NO	PART NAME	PCS	CONNECTION
VFK0678	18P EXTENTION CABLE	2	MAIN (PP3011)—SUB L/C (PS3303) MAIN (PP3012)—SUB L/C (PS3302)
VFK0764	10P EXTENTION CABLE	1	MAIN (PP2002)—CAP DRIVE (PS2002)
VFK0918	17P EXTENTION CABLE	1	MAIN (PP4501)—SUB AUDIO (PS4501)
VFK0937	9P EXTENTION CABLE	1	MAIN (PP3001)—L/C (PS301)
VFK0938	12P EXTENTION CABLE	2	MAIN (PP3002)—L/C (PS302) MAIN (PP2001)—CAP DRIVE (PS2001)
VFK0939	13P EXTENTION CABLE	1	MAIN (PP3003)—L/C (PS303)
VFK0940	14P EXTENTION CABLE	1	MAIN (PP3013)—SUB L/C (PS3501)
VFK0944	5P EXTENTION CABLE	3	MAIN (PP7401)—TV DEMODU (PS701) MAIN (PP7402)—TV DEMODU (PS702) MAIN (PP7403)—TV DEMODU (PS703)
VFK0890	6P EXTENTION CABLE	1	MAIN (PP7404)—TV DEMODU (PS704)

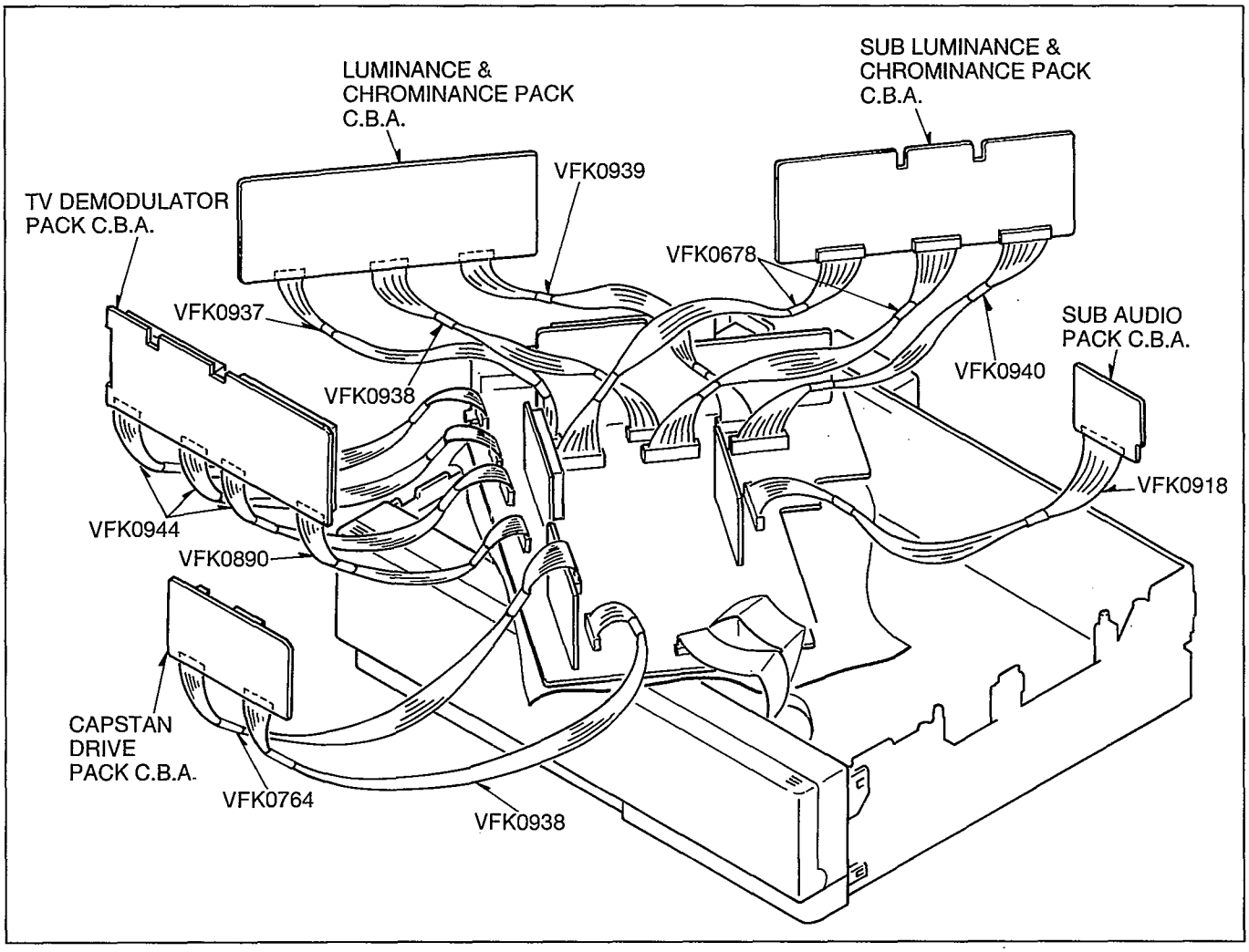


Fig. S10

1-2. SERIAL CLOCK TRANSMISSION ERROR DISPLAY

If the Serial Clock is not transmitted from IC6001 to IC7501, "E9" is displayed as shown in Fig. T1. This indication will be displayed either during the Service Information Display mode or in normal mode.

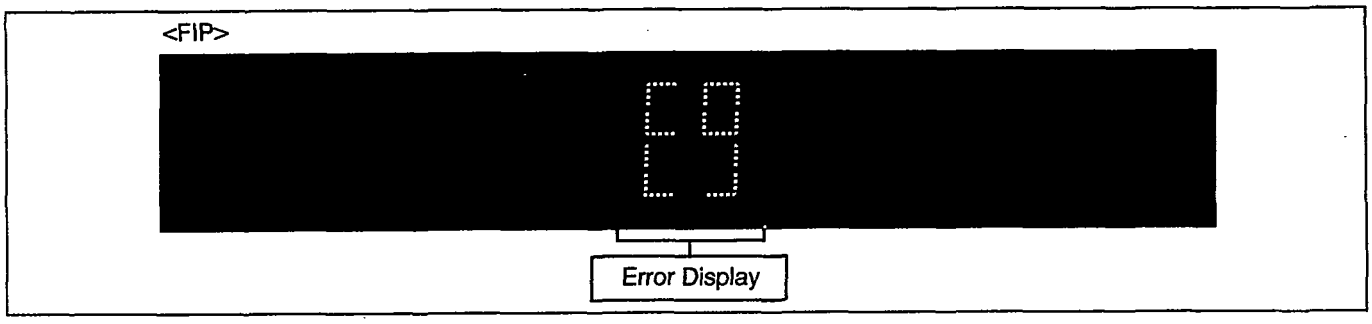


Fig. T1 Serial Data/Clock Transmission Error Display

1-3. SERVICE INFORMATION DISPLAY

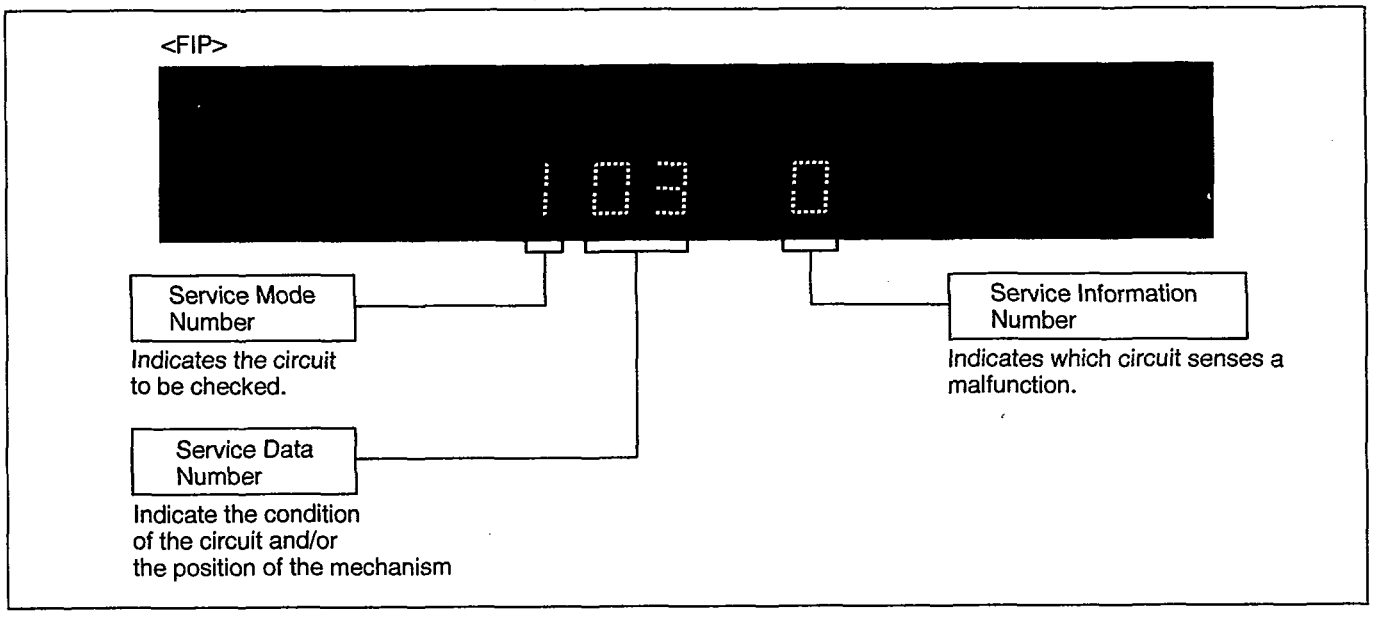

<FIP>
103 0
Service Mode Number
Indicates the circuit to be checked.
Service Data Number
Indicate the condition of the circuit and/or the position of the mechanism
Service Information Number
Indicates which circuit senses a malfunction.

Fig. D1 Service Information Display

1-3-1. Purpose of Service Information Display

This information aids trouble shooting by indicating the source of the malfunction. The service mode number & service data number are used by the technician during repair while the service information can be used by the consumer to diagnose malfunctions allowing the technician to provide a more accurate repair cost estimate and reduce repair time.

1-3-2. Turning on Service Information Display

There are two ways to turn on the Service Information Display.

(1) Press the FF, REW and EJECT buttons simultaneously. The Service Information will be displayed for 1 minute.
(2) Connecting a Jumper wire between TP6010 and TP6011 will display the service information indefinitely.

In the Service Information Display, there are four digits divided into 3 functions.
The first digit indicates which of the 7 service modes that the unit is currently in.

MODE 1 : Checks tape protection circuit
MODE 2 : Checks tape transport mechanism
MODE 3 : Checks mode switching operation
MODE 4 : Checks control buttons
MODE 5 : Checks capstan motor
MODE 6 : Checks cylinder motor
MODE 7 : Checks loading/unloading operation

The second and third digits are service data which indicate the condition of the circuit or mechanism being checked.

The forth digit is the service Information display. It is to be used by the consumer to help determine the source of a malfunction. The service information display operates independently of the service modes and stores the fault indication in memory for as long as AC power is supplied.

1-3-3. Use of Service Modes

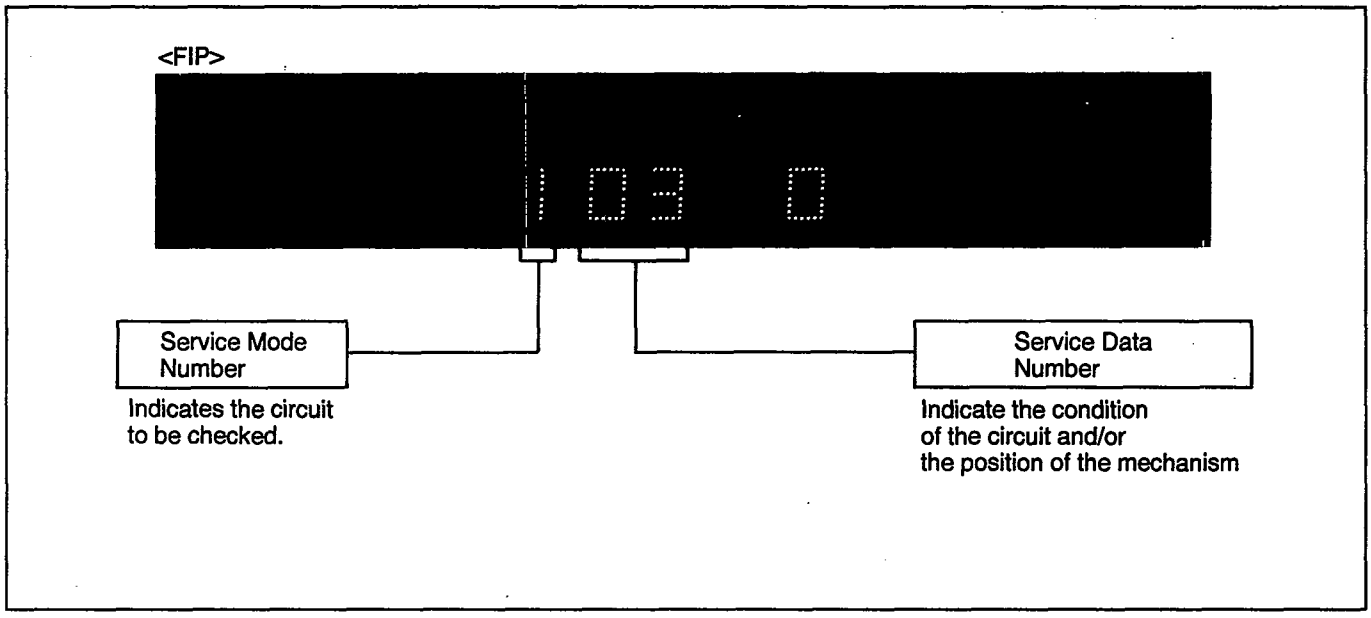

<FIP>
Service Mode Number
Indicates the circuit to be checked.
Service Data Number
Indicate the condition of the circuit and/or the position of the mechanism

Fig. D2 Service Mode Number and Service Data Number on S.I.D.

(1) Turn on Service Information Display.
(2) To change Service Modes press the FF, REW and EJECT buttons simultaneously.
(3) Mode 1: Checks that the Sensor LED, Supply & Take-up Sensor circuits check the circuits by blocking the light from the Sensor LED to either or both Supply & Take-up Sensors.
When the light is blocked to both sensors, "00" should be indicated on the service data number.
When the light is blocked to the supply sensor, "01" should be indicated.
(4) Mode 2: Checks the mode switch circuit while indicating mechanism position.
Service Data Numbers indicate the position of the mode switch and there by the mechanism position.
(5) Mode 3: Checks that mode switch circuit operations have been completed.
Service Data Number should indicate "00" after each mechanism operation is completed.
(6) Mode 4: Checks the operation circuit.
Indicates if IC6001 receives the operating commands from the mode buttons and/or remote controller.
(7) Mode 5: Checks the capstan motor circuit.
Indicates if the IC6001 has received the command to rotate the capstan motor.
(8) Mode 6: Checks the cylinder motor circuit.
IC6001 has received the command to rotate the cylinder motor.
(9) Mode 7: Checks the Loading/Unloading Operation.
The Loading Motor rotates for loading operation when the "PLAY" button pressed.
The Loading Motor rotates for unloading operation when the "STOP" button is pressed. This mode can be displayed indefinitely until the OPERATE button is pressed.

<NOTE>
Refer to Fig. D5 for details of Service Data Number.

1-3-4. Service Information Number

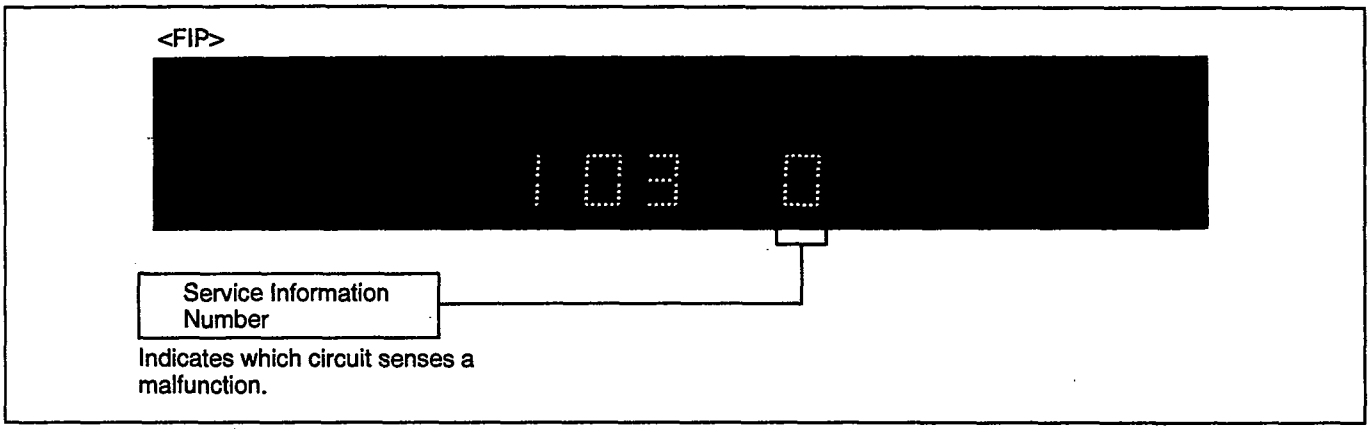


Fig. D3 Service Information Number on S.I.D.

Refer to Fig. D4 for details of Service Information Number.

Note:
The Service Information Number display is independent of the service mode display.
The Service Information Number will be stored as long as AC power is supplied.
If a second error occurs, only the most recent error will be displayed.

Service Information Number	Malfunction
0	Normal (No problem)
1	Cylinder stop
2	Tape reel stop
3	Stop at position other than 4 or 6
4	Stop during unloading
5	Faulty capstan rotation
6	Stop during Cassette-In/Eject operation

Fig. D4 Service Information

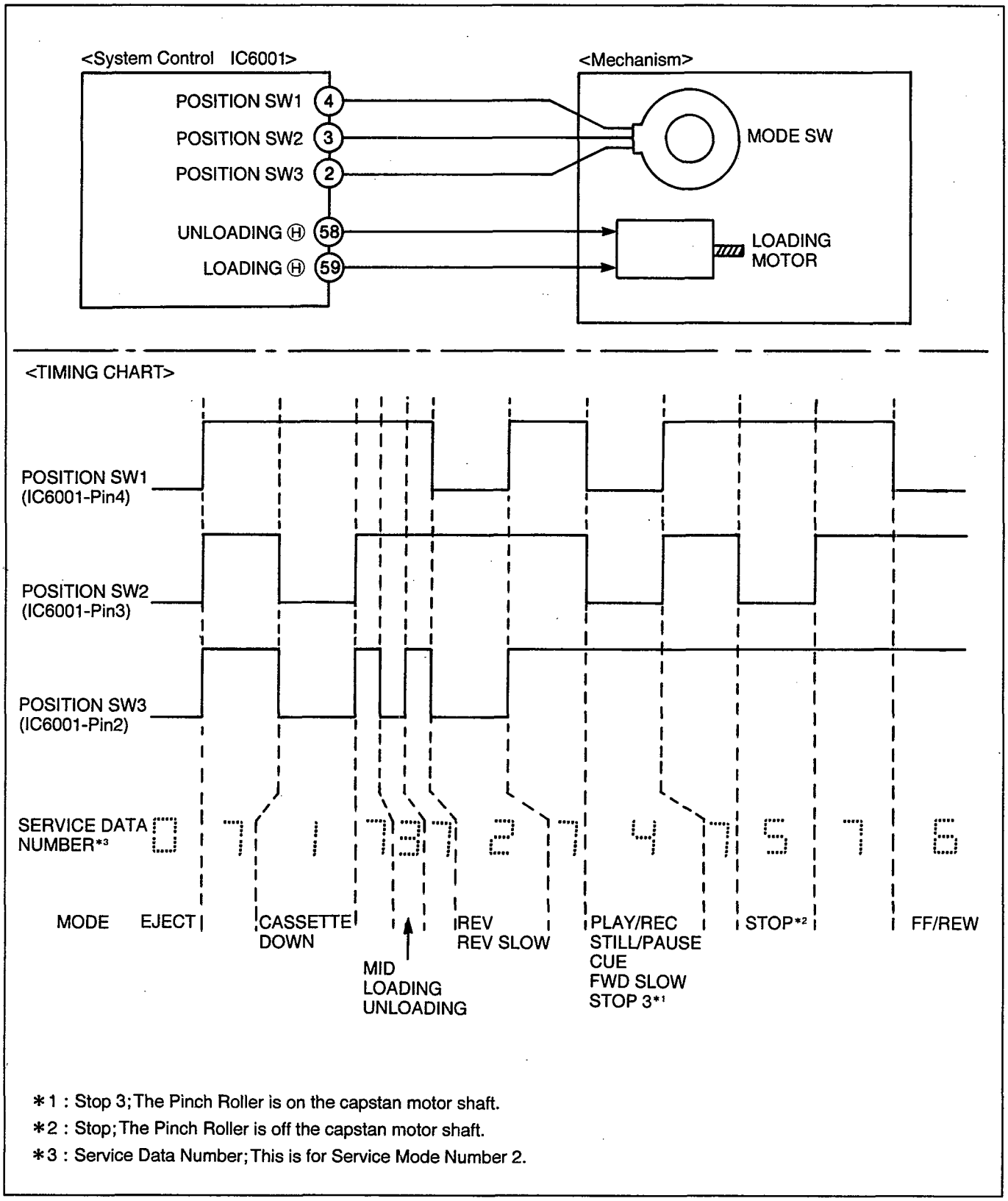
Service mode Number	Note for checking Service Data Numbers	Service Data Numbers	Indication	Remarks
1	———	00	No light detected at either sensor	Tape not required
		01	Tape Begining. Light to Supply Photo Sensor is blocked.	
		02	Tape End. Light to Take-up Photo Sensor is blocked.	
		03	Light detected at both sensors.	
2	———	00	EJECT	Tape Reuired *1: STOP3; The Pinch Roller is on the capstan motor shaft. *2: STOP; The Pinch Roller is off the capstan motor shaft. Refer to Fig. D7 to Check mechanism Position and timing. Note : Supply and Take-up Photo Sensor is inhibited.
		01	Cassette-down	
		02	REV, REV SLOW	
		03	Loading/Unloading	
		04	PLAY/REC, STILL/PAUSE, CUE, FWD SLOW, STOP3 *1	
		05	STOP *2	
		06	FF/REW	
		07	Intermediate position	
3	Disregard service data displayed until mechanism operation is completed. Then the display should indicate "00".	00	Any display other than "00" indicates a fault in the mode switch circuit or system.	Tape Required.
4	Display only when the operating button is pressed.	Refer to Fig. D6		Tape not required.
5	Left digit only, disregard Right digit display.	8 _ (Left Digital / Right Digital)	8, 9, u, A, −, n, L, and no display indicate that the Capstan motor "PLAY" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is indicated.
	Right digit only, disregard left digit display.	8 7 (Left Digital / Right Digital)	1, 2, 3, 4, 5, 6, 7, indicate that the Capstan motor "CUE, FF, Forward Slow" commands received by IC6001.	
	Right digit only, disregard left digit display.	8 _ (Left Digital / Right Digital)	8, 9, u, A, −, n, L, and no display indicate that the Capstan motor Reverse, Rew, Reverse Slow commands received by IC6001.	
6	Left digit only, disregard Right digit display.	_ 0 (Left / Right)	1, 3, 5, 7, 9, A, n and no display indicate that the cylinder motor "ON" command received by IC6001.	Tape required. If a symbol other than those listed is displayed, a malfunction in that circuit is

SERVICE DATA NUMBERS	MODE BUTTONS	SERVICE DATA NUMBERS	MODE BUTTONS
3n	OPERATE	56	DISPLAY (REMOTE CONTROLLER)
01	EJECT	—	RESET
09	AUDIO DUB	49.4U	INDEX (REMOTE CONTROLLER)
A3	INSERT	—	TRACKING (+,−)/V-LOCK (REMOTE CONTROLLER)
-9	PAL/MESECAM	—	TAPE SELECT (REMOTE CONTROLLER)
—	CHECK/PROG.	—	RECORDING SP/LP (REMOTE CONTROLLER)
34.35	∧ ∨ (REMOTE CONTROLLER)	—	CANCEL (REMOTE CONTROLLER)
—	NEXT/SP/LP	10	SU (1) (REMOTE CONTROLLER)
—	SLEEP/SHIFT	11	MO (2) (REMOTE CONTROLLER)
A4	TIMER REC	12	TU (3) (REMOTE CONTROLLER)
08	REC	13	WE (4) (REMOTE CONTROLLER)
—	CLOCK SET	14	TH (5) (REMOTE CONTROLLER)
—	TUNER PRESET	15	FR (6) (REMOTE CONTROLLER)
80	PAUSE/STILL	16	SA (7) (REMOTE CONTROLLER)
0U	PLAY	17	SU~SA (8) (REMOTE CONTROLLER)
00	STOP	18	MO~SA (9) (REMOTE CONTROLLER)
06	PAUSE/STILL (REMOTE CONTROLLER)	19	MO~FR (0) (REMOTE CONTROLLER)
03.02	FF, REW	3A	-/-- (REMOTE CONTROLLER)
—	TRANSMIT (REMOTE CONTROLLER)	—	AUDIO OUT
0	SLOW (REMOTE CONTROLLER)	57	OSD (REMOTE CONTROLLER)

Fig. D6 Service Data Display for Service mode 4

1-3-5. Timing Chart from Mode SW to System control IC6001

System control IC6001 senses the mechanism position though the Mode SW.
Fig. D7 shows the timing for Service Mode Number 2.



*1 : Stop 3; The Pinch Roller is on the capstan motor shaft.
*2 : Stop; The Pinch Roller is off the capstan motor shaft.
*3 : Service Data Number; This is for Service Mode Number 2.

Fig. D7 Timing Chart of Mode SW

1-4. TECHNICAL INFORMATION

1-4-1. AI (ARTIFICAL INTELLIGENCE) RECORDING FUNCTION

The recording and playback are adjusted to achieve optimum picture quality from tapes with varying charactristics.

(1) Detail explanation

<Playback mode>

The picture quality is varying from the different tapes as follows:

1) If the output level is low, from worn or rental cassette tapes, a soft picture is obtained by the RF equlizer and picture control on the Lumi./Chro. Pack C.B.A.
2) If the output level is medium, from normal tapes, a sharp picture is obtained from the emphasis and picture control on the Lumi./Chro. Pack C.B.A.
3) If the output level is high, from HG/S tapes, a sharp and detailed picture is obtained from the RF equlizer, emphasis picture control and noise canceller on the Lumi./Chro. Pack C.B.A.

<Recording mode>

The optimum recording level is used for all head conditions and for all types of tapes.

1) The luminance S/N is boosted 2dB.
2) Recording head wear compensation.
3) The optimum recording current is achieved in 1.5 seconds.

(2) Signal Flow

<Playback mode>

1) When the AI is turned on, the AI TRIG (H) signal is supplied to IC3403 from pin 122 of IC6001. The AI CNT (H) is supplied to the Lumi./Chro. Pack C.B.A., IC6001 and the Erase Current Generator circuit.
2) The RF C signal from the Head Amp C.B.A. is used by the IC3403 to detect the output level of the video head.
3) After receiving the RF C signal, the IC3403 supplies ENVE1 and ENVE2 to the Lumi./Chro. Pack as shown in Fig. A1.
4) The optimum picture is output from the video circuit.

<Recording mode>

1) When the AI is turned on, the AI TRIG (H) signal is supplied to IC3403 from pin 122 of IC6001. The AI CNT (H) is supplied to the Lumi./Chro. Pack C.B.A., IC6001 and the Erase Current Generator circuit.
2) Before recording, the recording and playback operations are done in the still mode to determine the optimum recording current. The signal level detection is the same as the playback mode operation. The recording current is set by the REC CUR1, 2, 3 signals from IC3403. IC3405 is used for erasing the tape in the still mode.

<Others>

The NTSC (L) signal is used for setting the system to NTSC or PAL.

Other command signals are used to control the performance timing.

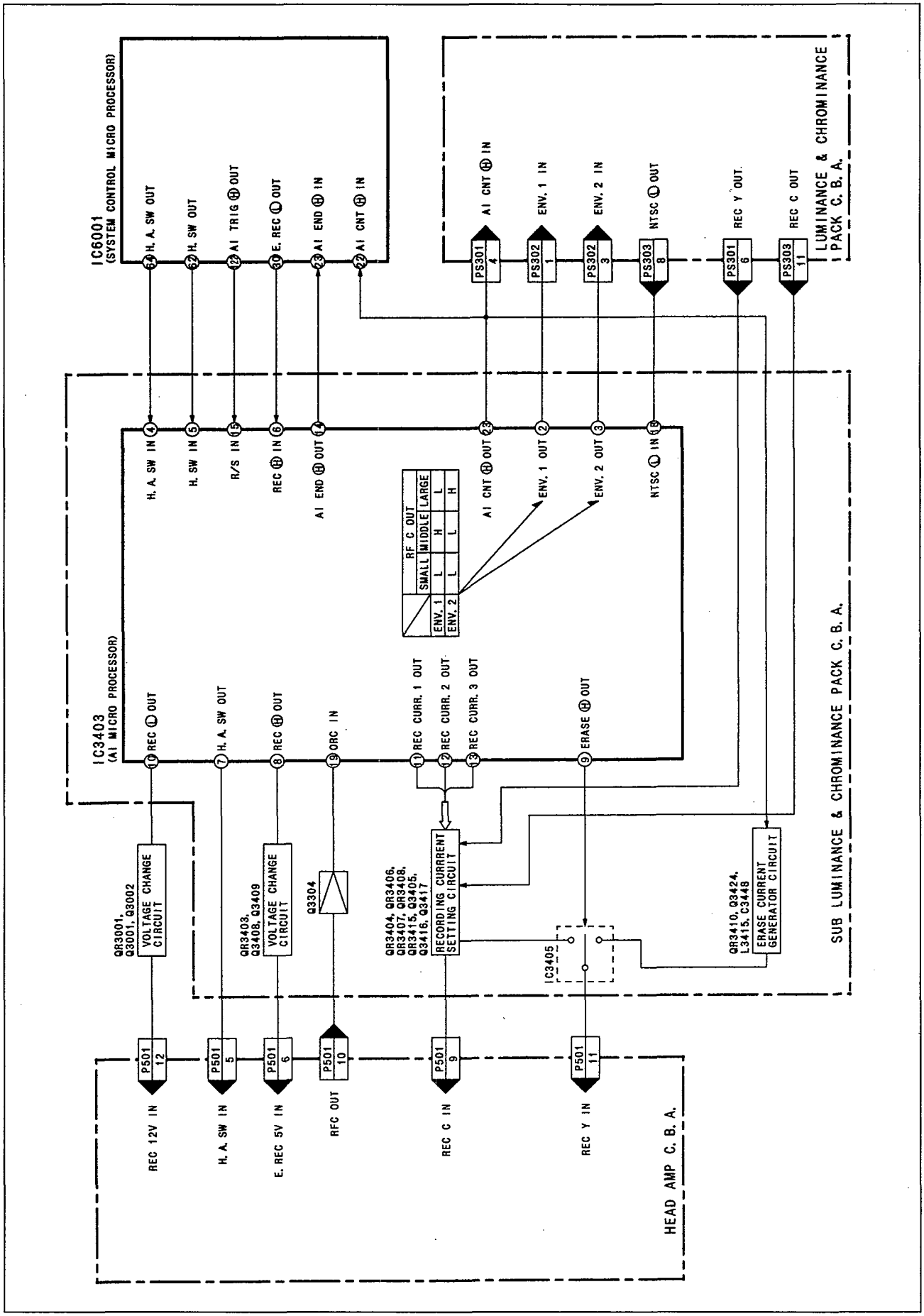

IC6001
(SYSTEM CONTROL MICRO PROCESSOR)
64 H. A. SW OUT
62 H. SW OUT
12 AI TRIG ⊕ OUT
10 E. REC Ⓛ OUT
23 AI END ⊕ IN
22 AI CNT ⊕ IN
PS301 4 AI CNT ⊕ IN
PS302 1 ENV. 1 IN
PS302 3 ENV. 2 IN
PS303 8 NTSC Ⓛ OUT
PS301 6 REC Y OUT.
PS303 11 REC C OUT
LUMINANCE & CHROMINANCE 1 PACK C. B. A.
H. A SW IN 4
H. SW IN 5
R/S IN 15
REC ⊕ IN 6
AI END ⊕ OUT 14
AI CNT ⊕ OUT 23
ENV. 1 OUT 2
ENV. 2 OUT 3
NTSC Ⓛ IN 8
RF C OUT
SMALL MIDDLE LARGE
ENV. 1 L H L
ENV. 2 L L H
IC3403
(AI MICRO PROCESSOR)
19 REC Ⓛ OUT
7 H. A. SW OUT
8 REC ⊕ OUT
13 ORC IN
11 REC CURR. 1 OUT
12 REC CURR. 2 OUT
13 REC CURR. 3 OUT
9 ERASE ⊕ OUT
QR3001, Q3001, Q3002 VOLTAGE CHANGE CIRCUIT
QR3403, Q3408, Q3409 VOLTAGE CHANGE CIRCUIT
Q3304
QR3404, QR3406, QR3407, QR3408, QR3415, Q3405, Q3416, Q3417 RECORDING CURRENT SETTING CIRCUIT
IC3405
QR3410, Q3424, L3415, C3448 ERASE CURRENT GENERATOR CIRCUIT
SUB LUMINANCE & CHROMINANCE PACK C. B. A.
P501 12 REC 12V IN
P501 5 H. A. SW IN
P501 6 E. REC 5V IN
P501 10 RFC OUT
P501 9 REC C IN
P501 11 REC Y IN
HEAD AMP C. B. A.

Fig. A1 Simplified AI Function Block Diagram

1-4-2. NEW SERIAL DATA TRANSMISSION

1. Serial data transmission

To exchange the data among the microprocessors, the serial data transmission is used.

Serial data transmission is used because of the relatively large amount of information that can be sent in a signal data line.

Actually two lines are required in this system, an in/out data line and a clock line.

The data in/out line between each microprocessor is timeshared.

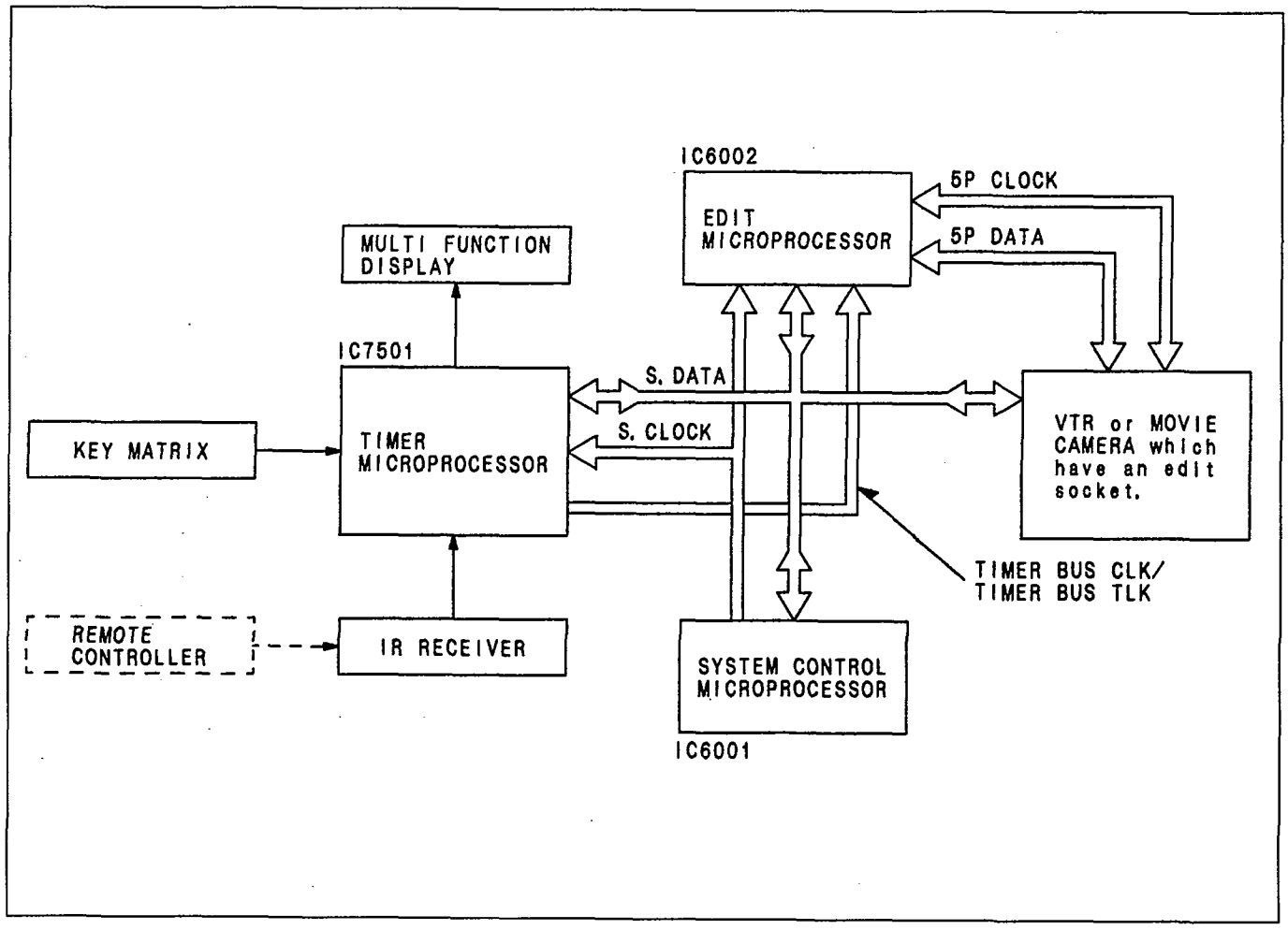


Fig. A2

2. Serial clock line and data line
This serial clock signal is a reference signal which is used to control the timing of the data transmission among the microprocessors.
The previous transmission has only 13 clocknumber, the new serial data transmission has 20 clock number in it.
Blocks 1 to 10 of both formats will be the same.

Now the clock number from 1 to 13 is same.
The contents of new data is as shown below.
S. Clock is used for transmission of the data among the system control microprocessor, timer microprocessor and edit microprocessor.
And 5P Clock which is composed of the clock no. 1, 3, 4, 5, 7, 8, 9 works to transmit the data between the edit microprocessor and the VTR or MOVIE CAMERA which has an edit socket.

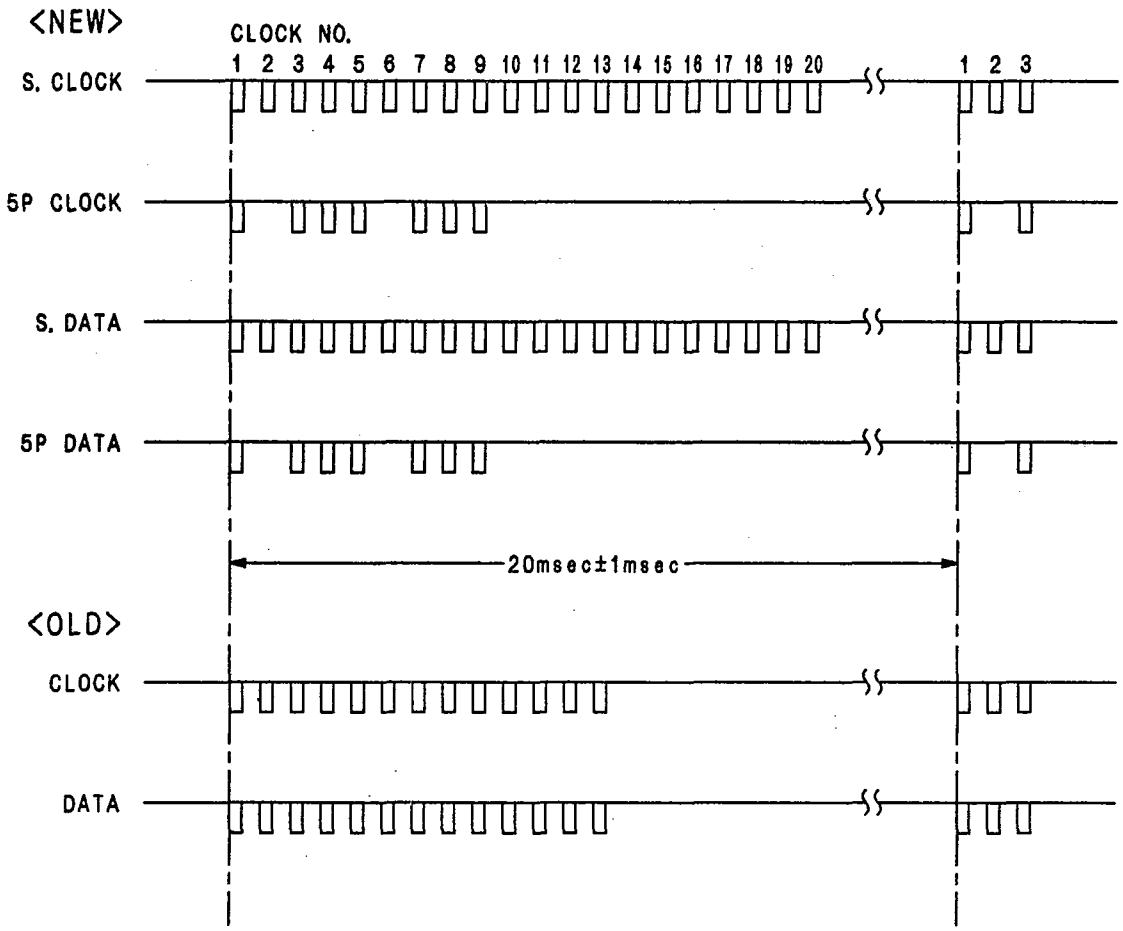


Fig. A3

CLOCK NO	TRANSMISSION	CONTENTS OF DATA	CLOCK NO	TRANSMISSION	CONTENTS OF DATA
1	IC7501 ← IC6001	TAPE SPEED M/R/S etc.	11	IC7501 ← IC6001	SEARCH MODE CONDITION CODE
2	IC6001 ← IC7501	WIRELESS REMOTE AND KEY CONTROL CODE	12	IC7501 ← IC6001	FRAME NUMBER CODE
3	IC6001 ← IC7501	TIMER INSTRUCTIONS CODE	13	NOT USED	———
4	IC6001 ← EDIT CONTROLLER	EDIT CONTROLLER INSTRUCTIONS CODE	14	IC6001 ← IC7501	JOG/SHUTTLE CODE
5	IC7501 ← IC6001	TRANSMISSION OF VTR MODE CODE	15	IC6001 ← IC7501	AI SWITCH CONDITION
6	IC7501 ← IC6001	DISPLAY INDICATION CODE (POWER ON/OFF etc.)	16	IC6001 ← IC7501	AUDIO CONDITION CODE
7	IC7501 ← IC6001	COUNTER/TAPE REMAINING CODE	17	IC7501 ← IC6001	PLAY BACK BILINGUAL CONDITION CODE
8	IC7501 ← IC6001	COUNTER/TAPE REMAINING CODE	18	IC6002 ← IC6001	VITC CODE
9	IC7501 ← IC6001	COUNTER/TAPE REMAINING CODE	19	IC6001 ← IC6002	EDIT MICROPROCESSOR INSTRUCTION CODE
10	IC6001 ← IC7501	TIMER CONDITION CODE	20	NOT USED	———

Fig. A4

Precautions

Please read these cautions before you operate this VTR.

Avoid Sudden Changes in Temperature

If the VTR is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the VTR.

Humidity and Dust

Avoid places where there is high humidity or much dust, which may cause damage to internal parts.

Do Not Obstruct the Ventilation Holes

The ventilation holes prevent abnormal increase in temperature. Do not block or cover these holes. Especially avoid covering the holes with soft materials such as cloth or paper.

Keep away from High Temperature

Keep the VTR away from extreme direct heat such as direct sunlight, heating radiators, or closed automobiles.

Keep Magnets away

Never bring a magnet or magnetized object near the VTR because it will adversely affect the performance of the VTR.

No Fingers or Other Objects Inside

Touching internal parts of this VTR is dangerous, and may cause serious damage to the VTR. Do not attempt to disassemble the VTR. There are no user serviceable parts inside.

Keep Water away

Keep the VTR away from flower vases, tubs, sinks, etc. CAUTION: If liquids are spilled into the VTR, serious damage could occur. If you spill any liquid into the VTR, consult qualified service personnel.

Lightning

To avoid damage by lightning, disconnect the aerial plug from the VTR.

Cleaning the VTR

Wipe the VTR with a clean, dry cloth. Never use cleaning fluid, or other chemicals. And do not use compressed air to remove dust.

Stacking

Place the VTR in a horizontal position, and do not place anything heavy on it.

Video Head Clogging

The video heads place picture signals on the tape during recording and read picture signals from the tape during playback and they are, therefore, of critical importance for the picture quality. If the VTR is used over extremely long periods of time, these heads may still become dirty and clogged. In such a case, the signals can no longer be recorded correctly, and the playback picture will be distorted accordingly. This is the case, for example, during the playback of a tape, the sound is reproduced normally, but no picture is seen, or the picture is greatly distorted. When such a symptom case occurs have the recorder checked by qualified service personnel.

Condensation may form in the VTR if:

- The VTR is in a room when the heater has just been turned on.
- The VTR is in a room with steam or high humidity.
- The VTR is brought from cold surroundings into a well-heated room.
- The VTR is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place which is hot and humid.

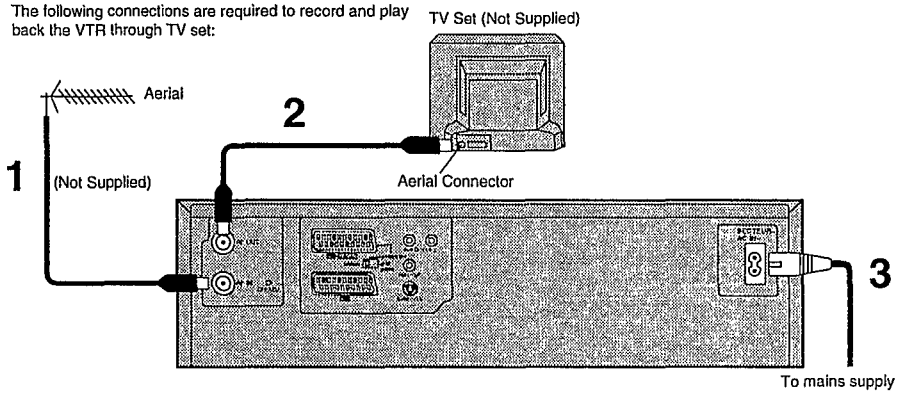
Note:
Do not operate the VTR for at least 1 hour if any of the above conditions occur.
This VTR does not incorporate a dew sensor.

Connections

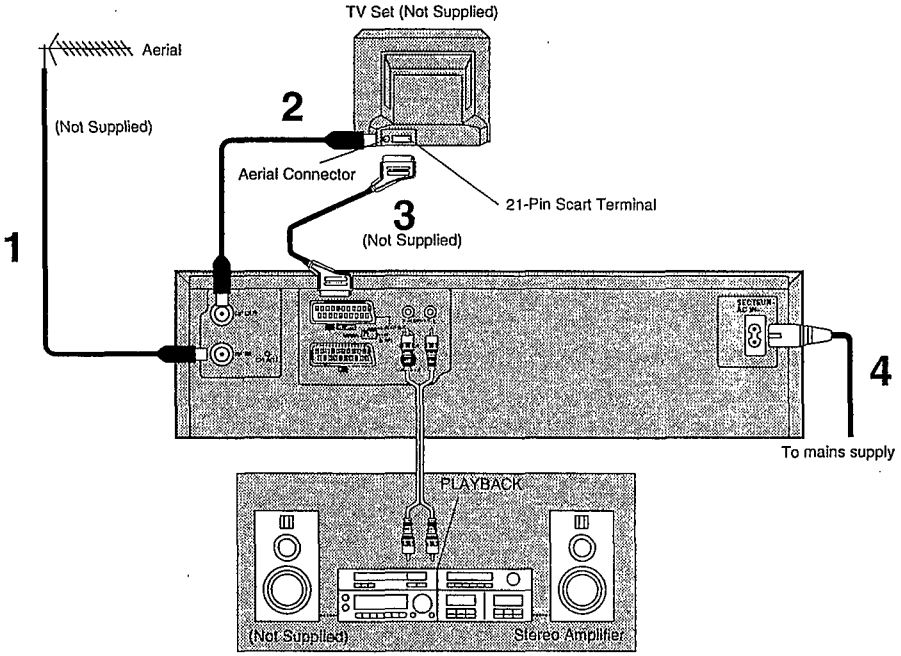
This tells you how to connect with an aerial, TV, etc.

Basic Connections

The following connections are required to record and play back the VTR through TV set:



Connection to a TV Set with 21-Pin Scart Terminal



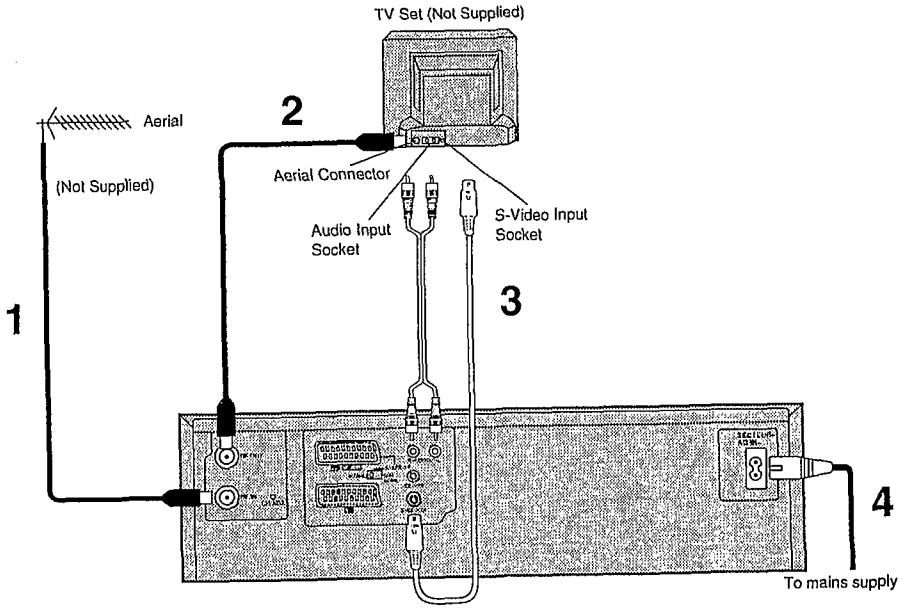
•Connection to a Stereo Amplifier

Connection to a TV Set with S-Video Socket

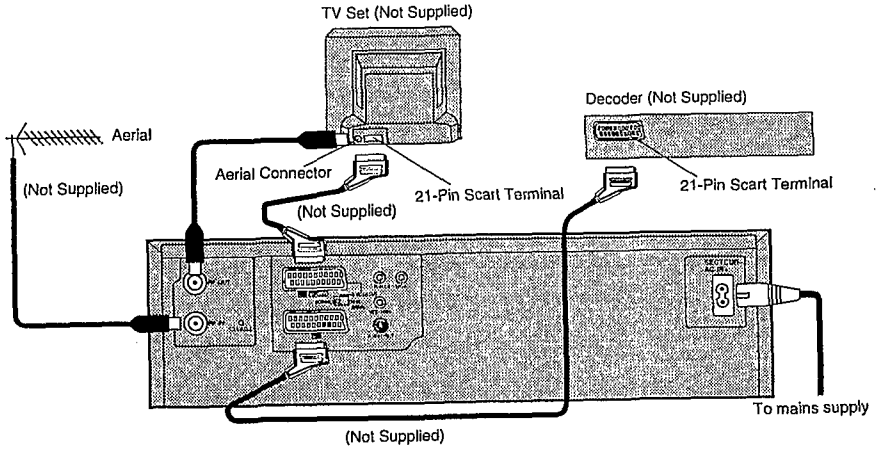
This VTR uses the S-VHS format that makes it possible to obtain high resolution and high picture quality by using the high-performance S-VHS video cassette tapes.

The conventional video sockets of VTRs output (input) a combination of the luminance signal (Y) and colour signal (C) which are recorded on the video tape. The new S (Separate)-Video Socket allows separate transmission of signals in order to obtain clearer pictures.

The connection with the S-Video Cable can also be used for playback of a tape that was recorded in the conventional VHS system. The "S" in the "S-Video Socket" stands for "SEPARATED Y/C" not for "S-VHS".



Connection to a Decoder



Note:
If the TV set is provided with an RGB-compatible connector, connect the 21-pin AV cable from the VTR to this connector. Use full-pin 21-pin AV cables for connecting the TV set and VTR and for connecting the VTR and decoder.

AV LINK

With this button the connected colour TV set can be switched from TV mode to VTR mode (vice versa) when it is connected by means of 21-pin scart cable.

This makes a variety of functions possible, such as simultaneous recording and viewing when a Pay TV (e.g. Canal Plus, Filmnet) decoder or a satellite receiver has been connected.

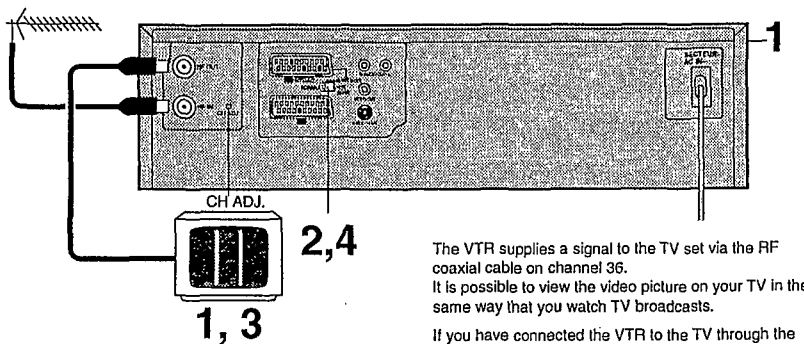
VTR mode (VTR indicator lights):
To enjoy sound and pictures from the VTR.

TV mode (VTR indicator goes off):
To watch another programme on the TV while recording on the VTR.
- Select the programme to be watched using the TV set's tuner.
- The sound and pictures of a different channel are received by the VTR.

VTR		TV set
Power On	VTR mode	AV input selected
	TV mode	Input from TV set's tuner*
Power Off	—	Input from TV set's tuner

*When the VTR is set to the TV mode and the Pay TV channel is selected, the signals will still be scrambled even when Pay TV is selected by the TV set's tuner. At a time like this, either set the VTR to the VTR mode or switch the TV set's input signals to AV input.

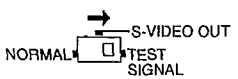
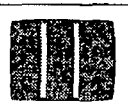
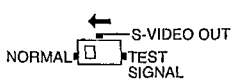
Tuning the TV to your VTR



The VTR supplies a signal to the TV set via the RF coaxial cable on channel 36.
It is possible to view the video picture on your TV in the same way that you watch TV broadcasts.

If you have connected the VTR to the TV through the 21-pin scart terminal or Audio/Video/S-Video output sockets then you do not need to follow the procedure mentioned below.

Operations

1		Turn on the TV and VTR.
2		To generate a test pattern, set **NORMAL/ S-VIDEO OUT/TEST SIGNAL** to TEST SIGNAL.
3		Set the TV to an unused position which you wish to use for your video playback.
4		Set **NORMAL/S-VIDEO OUT/TEST SIGNAL** to NORMAL.

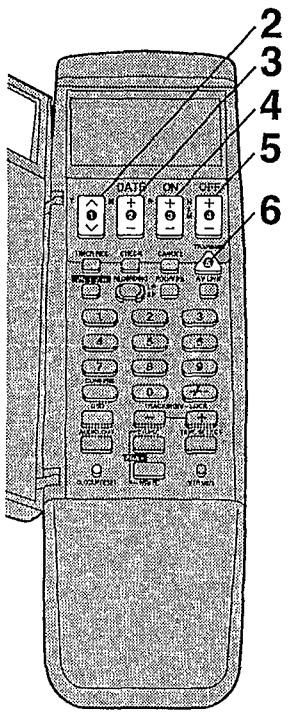
Note:
The test signal is transmitted on video channel 36. If you are encountering interference from a TV broadcast on this video channel, you may readjust to another free channel (32–40) by using the **CH ADJ.** screw which is located on the rear of the VTR. When rotating the **CH ADJ.** screw, take care not to turn it too far.
Please note that if the **CH ADJ.** screw is used then you will have to retune your TV to the test signal as in item 2 to 4 above.

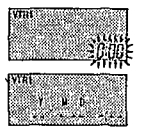
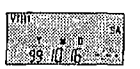
Setting the Clock of the VTR

By setting the time on the remote controller's clock and then by transmitting this setting to the VTR, the clocks on both the remote controller and VTR display the same time. The built-in digital clock employs the 24-hour system.

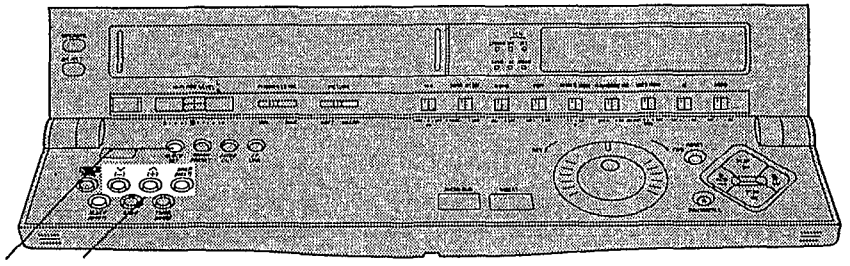
Preparation
- Turn on the VTR.
- Install the batteries in the remote controller. See page 17.

For Example:
Date; 16th, October, 1999
Time; 20:15



Operations	Display Symbols	
1		Open the door of the remote controller.
2		Set **Year** "99".
3 DATE		Set **Month** "10".
4 ON		Set **Date** "16".
5 OFF		Set **Time** "20:15". •When it is kept pressed, the indication changes in 30-minute steps.
6 TRANSMIT		Press **TRANSMIT**.
7		Close the door of the remote controller.

Note:
To change the previous clock setting, press **CLOCK/ PRESET** for at least 2 seconds. The previous clock setting will be displayed. Then follow steps **2** to **7** above.



In addition to setting the VTR clock from the remote controller, it can also be set directly from the VTR. The built-in clock is used to activate the timer for automatic recording and must be set to the correct time.

The built-in digital clock employs the 24-hour system.

Preparation

Turn on the VTR.

For Example:

Date; 16th, October, 1999
Time; 20:15

Operations		Display Symbols	
1	○ CLOCK SET		Keep **CLOCK SET** pressed for more than *2 seconds*.
2	Set each item by pressing ∧ (+) or ∨ (–) and **SP/LP (NEXT)**.		
	∨ (–) ∧ (+) ○ ○		Set **Year** "99".
			Set **Month** "10".
	↓		Set **Date** "16".
			Set **Hour** "20".
	SP/LP (NEXT) ○		Set **Minute** "15". •There is no need to press **SP/LP (NEXT)**.
3	○ CLOCK SET		Press **CLOCK SET**. •The clock will start.

Note:
The clock operates for at least 60 minutes by its backup system in the event of power failure.

Time Reset Function

If the clock is less than two minutes slow or fast, it can easily be reset to the proper time.

For example:
Resetting the clock to 12:00.00

1 Keep **CLOCK SET** pressed at any time between 11:58.00 and 12:01.59 for more than 2 seconds.

2 Press **CLOCK SET** again as soon as you hear the 12:00.00 time signal.

Summer Time Function

Setting to summer time

1 Keep **CLOCK SET** pressed for more than 2 seconds.

2 Press **SLEEP (SHIFT)**.
•The time on the clock is advanced by 1 hour.

3 Press **CLOCK SET**.

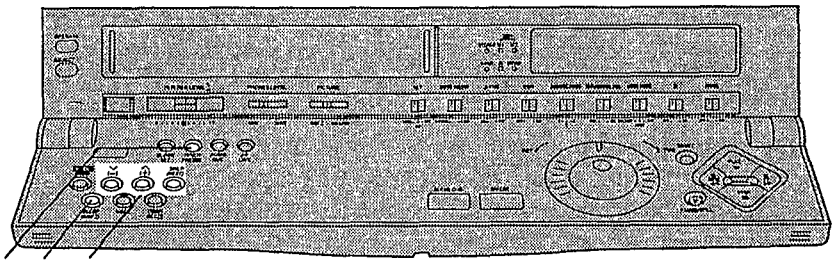
Returning from summer time to standard time

1 Keep **CLOCK SET** pressed for more than 2 seconds.

2 Press **SLEEP (SHIFT)** twice.
•The time on the clock is set back by 1 hour.

3 Press **CLOCK SET**.

Storing TV Broadcasts into your VTR



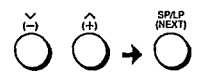
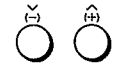
1,5 3 2,4

Introduction

The VTR is fitted with its own tuner (just like a normal TV set) and can be pre-set to receive up to 99 TV broadcast stations.

Preparation

- Confirm that the TV is on and the VTR viewing channel is selected.
- Turn on the VTR and Select the programme position except A1, A2 and A3.

Operations	Display Symbols	
1		Keep **TUNER PRESET** pressed for more than 2 seconds.
2 		Select the programme position, then press **SP/LP (NEXT)**.
3		Select normal TV station or Pay TV (e.g. Canal Plus, Filmnet) station. •1: To preset normal TV stations. •2: To preset Pay TV stations.
4 		Search for the required TV station. •Press **SP/LP (NEXT)** and repeat steps **2–4** for each programme position you want to tune to a station.
5		Press **TUNER PRESET** twice.

Direct Channel Input Tuning Procedure

If you know the channels on which the TV stations can be received, the TV stations can be tuned in by following the steps given below.

1 Keep **TUNER PRESET** pressed for more than 2 seconds.

2 Select the programme position by using ∧ (+) or ∨ (–), then press **SP/LP (NEXT)**.

3 Select normal TV station or Pay TV (e.g. Canal Plus, Filmnet) station by pressing **SLEEP (SHIFT)**.
- •1: To preset normal TV stations.
- •2: To preset Pay TV stations.

4 Input the channel number for the required TV station by using Number buttons on the remote controller.
- •Press **SP/LP (NEXT)** and repeat steps **2–4** for each programme position you want to tune to a station.

5 Press **TUNER PRESET** twice.

Fine Tuning Procedure

1 Keep **TUNER PRESET** pressed for more than 2 seconds, and then press again.

2 Press **SP/LP (NEXT)**.

3 Press ∧ (+) or ∨ (–) to obtain the best tuning condition.
- •"AFC" Indicator disappears.
- •To return the tuning to its former state, press **SLEEP (SHIFT)**.

4 Press **TUNER PRESET**.

Blanking of Unoccupied Programme Positions

1 Keep **TUNER PRESET** pressed for more than 2 seconds.

2 Select a programme position which you do not want to tune to a TV station, by using ∧ (+) or ∨ (–).

3 Press **SLEEP (SHIFT)**. ("–-" Is displayed.)
- •Repeat steps **2** and **3** for another unoccupied programme positions to skip during the selection of the programme positions.
- •To cancel the blanking of a programme position, select that programme position on the VTR and then press **SLEEP (SHIFT)**.

4 Press **TUNER PRESET** twice.

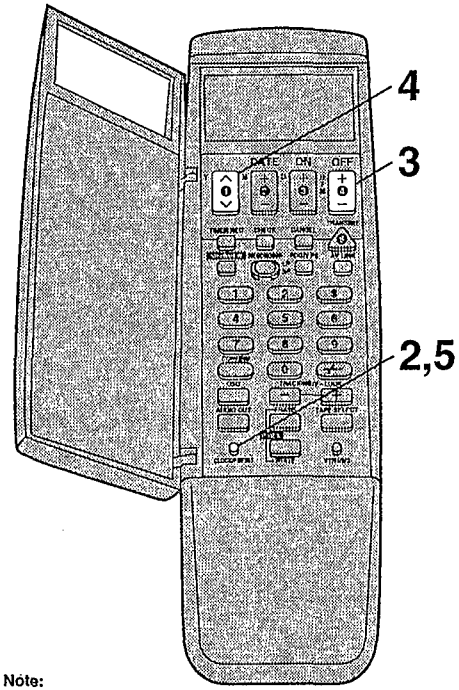
Channel Plan

Channel Indication	TV Channel
2–12	E2–E12
13–20	—
21–69	21–69
74–76	S1–S3
80–82	M1–M3
83–89	M4–M10
90–99	U1–U10
121–141	S21–S41

Preparations for ShowView Programming

Setting Up the Remote Controller for the ShowView Programming

This remote controller uses specially designated numbers called "guide numbers" to differentiate between the TV stations. Before programming using the ShowView numbers, you must enter the guide numbers of the TV stations to be viewed and the programme positions at which those TV stations are received on the VTR into the remote controller. Have a newspaper or magazine at hand which lists the TV station guide numbers and ShowView numbers.



Note:
To receive satellite stations, the satellite receiver must be connected to the VTR and programme position must be set depending on the type of the connection made.

A1: When the satellite receiver is connected to the AV1 socket.
A2: When the satellite receiver is connected to the AV2 socket.
A3: When the satellite receiver is connected to the Audio/Video input sockets (AV3).

- When the satellite receiver is connected by means of the RF coaxial cable, set to a free programme position between 1 and 99.

Preparation

Set the clock of the remote controller first.

For Example:

TV Station	Guide Number	Programme Position
ARD	001	1
ZDF	002	2
RTL	004	4
SAT1	005	3

Operations **Display Symbols**

1 Open the door of the remote controller.

2 Keep **CLOCK/PRESET** pressed for more than 2 seconds and then press it again.

CLOCK/PRESET

3 Select the guide number (001–255).

OFF

4 Select the programme position (1–99, A1–A3).

- To set the other TV stations, repeat steps **3** and **4**.

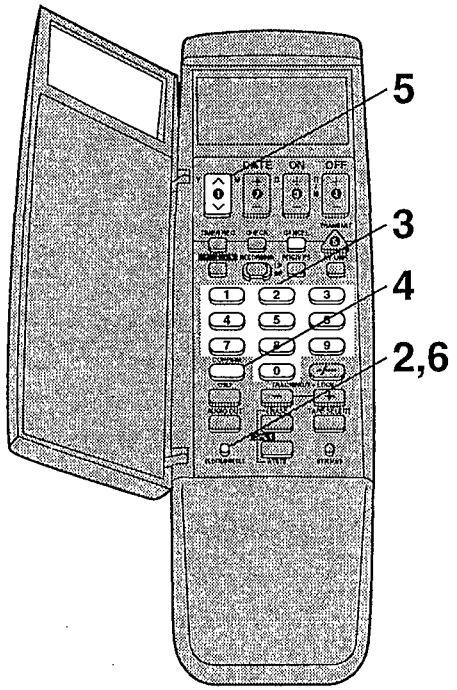
5 Press **CLOCK/PRESET** twice.

CLOCK/PRESET

6 Close the door of the remote controller.

If you do not know the Guide Number of a TV Station

You can set it by figuring it out from the ShowView number for the programme broadcast by that station.



Operations **Display Symbols**

1 Open the door of the remote controller.

2 Keep **CLOCK/PRESET** pressed for more than 2 seconds and then press it again.

CLOCK/PRESET

3 Enter a ShowView number.
Example: 744286

- If you have entered the wrong number, press **CANCEL** and then enter the proper number.

4 Press **CONFIRM** to set the guide number.

CONFIRM

5 Select the programme position (1–99, A1–A3).

- To set the other TV stations, repeat steps **3** to **5**.

6 Press **CLOCK/PRESET** twice.

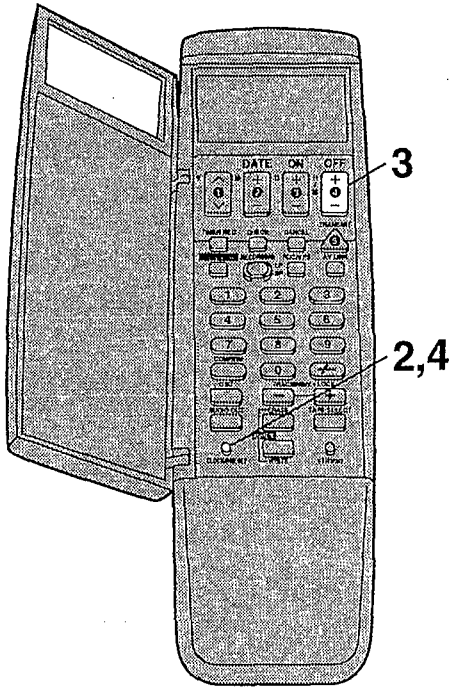
CLOCK/PRESET

7 Close the door of the remote controller.

Note:
Enter ShowView numbers which are ahead of the present time. Otherwise, they will not be set into the proper guide numbers.

Setting the Remote Controller for Operation of your TV

You can operate some manufacture of TVs (see table below) using the supplied remote controller after this setting up.



Number	Manufacturer
1	Panasonic
2	
3	
4	
5	GRUNDIG/Blaupunkt
6	PHILIPS
7	SONY

Preparation

- Turn on the TV.
- Install the batteries in the remote controller.

Operations	Display Symbols

1 Open the door of the remote controller.

2 Keep **CLOCK/PRESET** pressed for more than 2 seconds and then press it twice.

- "TV" now appears on the remote controller's display.

3 Press **OFF** several times.

- When the number matches the manufacturer of your TV, the TV's power is turned off.

4 Press **CLOCK/PRESET.**

5 Close the door of the remote controller.

When the number is 1, 2, 3 or 4:
When the TV's power is turned off in step **3** above, turn it back on and adjust the TV's volume using this remote controller. The volume can be adjusted if the number matches the manufacturer of TV. If it is not possible to adjust the TV's volume, try setting the number (1 to 4) to match the manufacturer of TV again until the volume can be adjusted.

Note:
Some TV models cannot be operated using this remote controller.

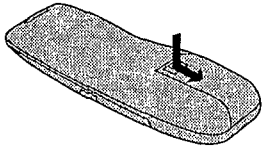
Power Source for the Remote Controller

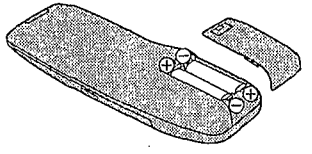
The remote controller is powered by 2 "UM3" or "R6" size batteries. The life of the batteries is about one year, although this depends on the frequency of use.

Precautions for Battery Replacement

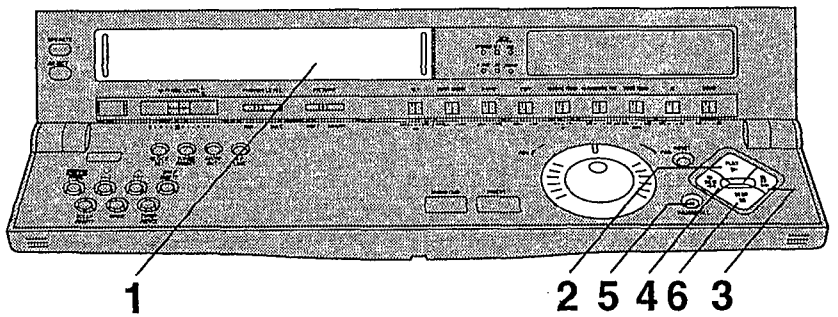
- Load the new batteries with their polarity (⊕ and ⊖) aligned correctly.
- Do not apply heat to the batteries, or an internal short-circuit may occur.
- If you do not intend to use the remote controller for a long period of time, remove the batteries and store them in a cool and dry place.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together, and never use an alkaline battery with a manganese battery.

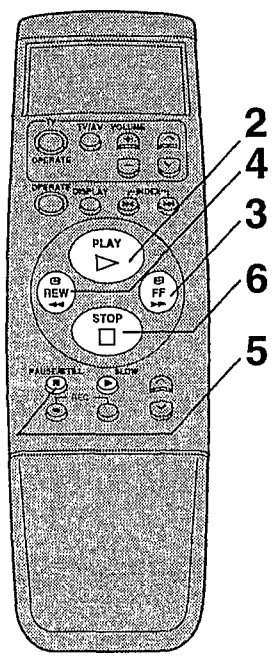
Installing the Batteries





Playback





Operations	Display Symbols	
1		Insert a recorded cassette tape.
2	PLAY	Start viewing the picture.
3	FF	Search forward by tapping **FF**. •To change back to normal playback, press **PLAY**.
4	REW	Search backward by tapping **REW**. •To change back to normal playback, press **PLAY**.
5	PAUSE/STILL	View a still picture. •To continue the normal playback, press **PLAY** or **PAUSE/STILL**.
6	STOP	Stop viewing the picture.

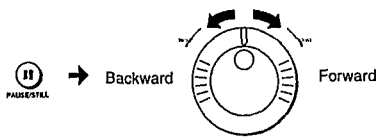
Other Playback Functions

To change the Playback Speed

Using Shuttle Ring:

1 Press **PAUSE/STILL** on the VTR.

2 Rotate Shuttle Ring.



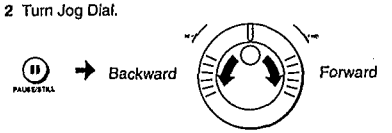
Using Remote Controller:

Press **SLOW** during playback to activate slow playback.

To locate the Desired Picture exactly

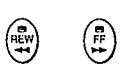
1 Press **PAUSE/STILL** on the VTR.

2 Turn Jog Dial.



To obtain High Speed Picture during Fast Forward or Rewind

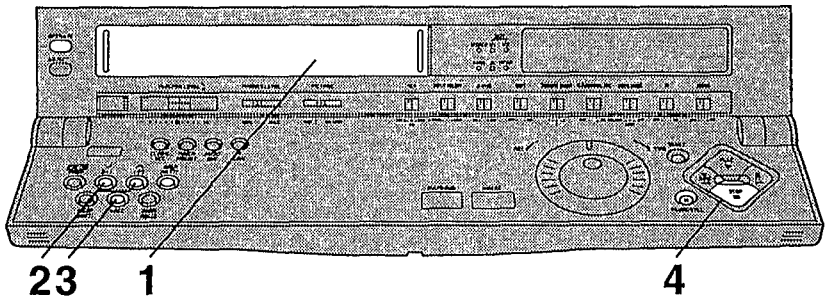
Keep **FF** pressed during fast forward.
Keep **REW** pressed during rewind.

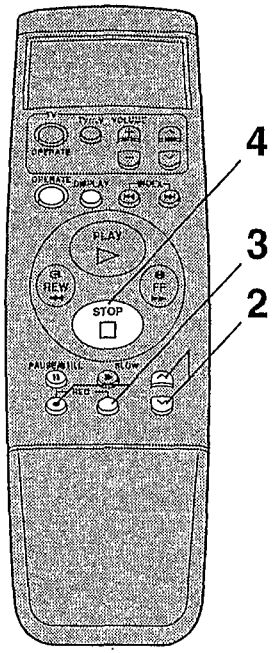


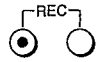
Notes:

- *Audio reproduction of linear (conventionally recorded)* tapes will be monaural when played back on the FM Hi-Fi video recorders.
- Cue or review playback will be automatically released after 10 minutes, and still or slow playback after 5 minutes.
- In LP mode only:
  1. During any playback mode other than normal playback, the picture may have some noise bars, the colour may be unstable, or a black and white picture may appear.
  2. *When playing back a tape which was recorded on* another VTR, it may be necessary to adjust the Tracking Control. In some cases the picture quality may still be inferior. This is due to limitation of format.

On-the-spot Recording





Operations	Display Symbols	
1		Insert a cassette tape. •If it has already been inserted, press **OPERATE** to turn the VTR on.
2		Select TV station.
3		Start recording.
4		Stop recording.

To select the Desired Tape Speed

Press **SP/LP** before recording.

To interrupt Recording

Press **PAUSE/STILL** during recording.
Press again to continue recording.

To record One TV Programme while Viewing Another Programme

1 Refer to the on-the-spot recording operations steps 1 to 3.

2 Select the TV programme on your TV set you wish to view at the present time.

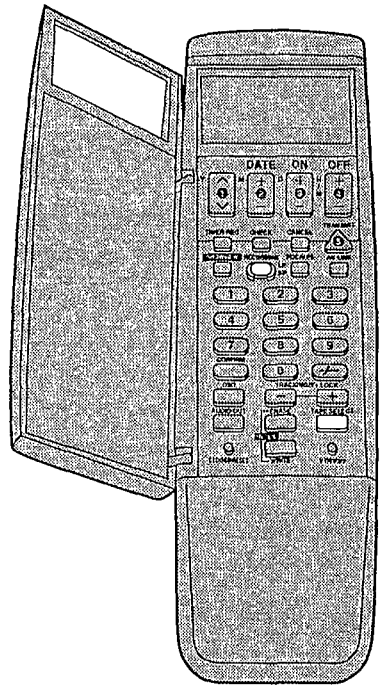
To display the Approximate Remaining Tape Time

1 Press **TAPE SELECT** to select the corresponding cassette tape length.

E195: For E30, -60, -90, -120, -180 and -195 tapes.
E240: For E240 tape.
E260: For E260 and -300 tapes.

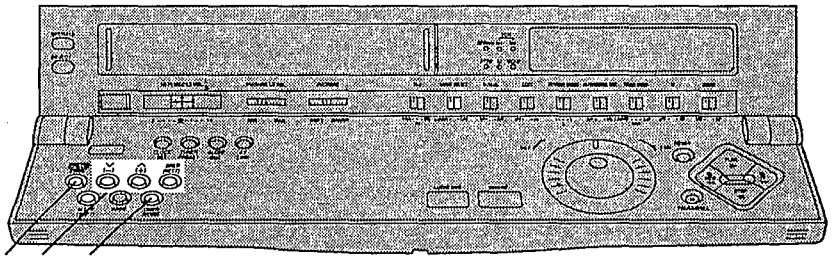
2 Press **DISPLAY**.
•The remaining tape time may not be displayed correctly depending on the tape used.

→Clock→Counter→**Remaining tape time**→



Notes:
•When a video cassette with a broken off tab is inserted, the "oo" indication will flash to indicate that recording is not possible.
•The recording pause mode will be automatically released after 5 minutes, and be back to the stop mode.

Timer Recording



Up to 8 timer programmes can be recorded up to one month in advance by setting the timer, including daily and weekly programmes.

Preparation

Insert a cassette tape with an intact erasure prevention tab.

For Example:

Timer programme number;	1
Programme position (channel);	2
Date;	27th, October
Starting time;	20:02
Ending time;	21:30
(present date;	16th October)

Operations		*Display Symbols*	
1	CHECK/PROG		Select **Timer programme number** "1".
2	Set each item by pressing ∧ (+) or ∨ (−) and **SP/LP (NEXT)**.		
	(−) (+)		Set **Programme position** (channel) "2".
			Set **Date** "27". •For daily and weekly recording, see next page.
	↓		Set **Starting time** (hour) "20".
			Set **Starting time** (minute) "02".
	SP/LP (NEXT)		Set **Ending time** (hour) "21".
			Set **Ending time** (minute) "30". •There is no need to press ***SP/LP (NEXT)***.
3	TIMER REC		To activate timer recording, press **TIMER REC**.

Setting for Daily and Weekly Timer Recording

In the Date setting step, press ∨ (−) repeatedly until the desired day (days) is displayed.

Daily recording

From Sunday to Saturday — SU MO TU WE TH FR SA

From Monday to Saturday — MO TU WE TH FR SA

From Monday to Friday — MO TU WE TH FR

Weekly recording

For example, Sunday — SU

Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1/AV2 Socket or the Audio/Video/S-Video input sockets, select the A1, A2 or A3 indicator for the programme position.

A1: Through the AV1 socket.
A2: Through the AV2 socket.
A3: Through the AV3 sockets on front panel.
Set ***INPUT SELECT*** *on the VTR.*
S-VIDEO; Through the S-VIDEO IN and AUDIO IN sockets.
LINE; Through the VIDEO IN and AUDIO IN sockets.

Selecting the Desired Tape Speed

After step 2, press **SP/LP (NEXT)** and select SP or LP by pressing ∧ (+) or ∨ (−).

Setting other Programmes in Succession

Repeat steps **1** and **2**.

Checking a Timer Programme

Select the timer programme number to be checked by pressing **CHECK/PROG**.

On Screen Display

CHECK/PROG

•*Select the desired language for On Screen Display first.* See page 30.

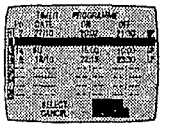
Cancelling a Timer Programme

1 Press **TIMER REC** to turn off the timer recording function.

2 Select the timer programme number to be canceled by pressing **CHECK/PROG**.

3 Press ∧ (+) and ∨ (−) simultaneously for more than 3 seconds.

(−) (+)



Optional Function

PDC (Programme Delivery Control)/VPS (Video Programme System)

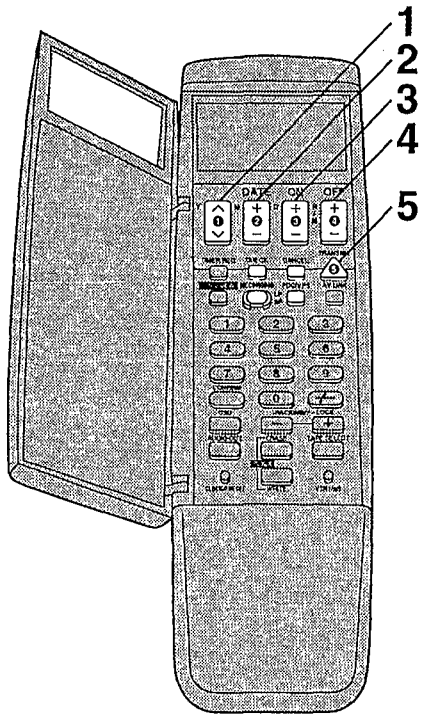
The Programme Delivery Control (PDC) or the Video Programme System (VPS) is a very convenient system which assures that the TV programmes you have programmed for timer recording will be recorded exactly from beginning to end, even if the actual broadcasting time differs from the scheduled time due to delayed start or extension of the programme duration. Also, if a programme is interrupted and, for example, some special news are inserted, the recording will also be interrupted automatically and resumed when the programme continues.

- *This model is not* equipped with PDC/VPS function. The PDC/VPS function becomes operative when the VTR is equipped with the optional PDC/VPS decoder. Consult your authorized video dealer.
- Press **SLEEP (SHIFT)** in step **2** to cancel the PDC/VPS function.
- In the case of PDC/VPS recording, use the **correct** time (PDC/VPS time) for recording the TV programmes. PDC/VPS recording is not performed when the time (PDC/VPS time) is incorrect, even if only by one minute.
- If the actual broadcasting times of timer recordings *overlap (regardless of whether they are* PDC/VPS controlled), the recording that starts first has always priority, and the recording of the later beginning programme will start only after the first timer recording has finished.
- When the PDC/VPS signal drops out because the broadcast signal is weak, or when a broadcasting station does not transmit a regular PDC/VPS signal, the timer recording will be performed in the normal mode (without PDC/VPS) even if it was programmed for PDC/VPS.
  In this case, even if the timer recording is performed, whatever has been programmed will not be cancelled at that particular time but at 4 a.m. on the following day.

Note:

If a timer recording is not performed to the end (due to insufficient tape or cancellation by the user), the programmed timer recording data will be cancelled from the memory by 4 a.m. two days later.
However, if the Timer Record Function is activated at that time, the programmed timer recording data will be cancelled at 4 a.m. the next day.

Using the Remote Controller



Preparation

- Insert a cassette tape with an intact erasure prevention tab.
- Open the door of the remote controller.

For Example:

Programme position (channel);	2
Date;	27th, October
Starting time;	20:02
Ending time;	21:30

Operations **Display Symbols**

1 Set Programme position (channel) "2".

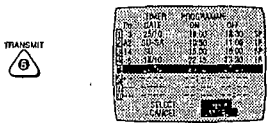
2 Set Date "27".

3 Set Starting time "20:02".

- When it is kept pressed, the indication changes in 30-minute steps.

4 Set Ending time "21:30".

5 Press **TRANSMIT**. On Screen Display



6 Close the door of the remote controller.

Daily Timer Recording

For this timer function, several groups of days can be selected.

Ⓐ Daily recording from Sunday to Saturday
Ⓑ Daily recording from Monday to Saturday
Ⓒ Daily recording from Monday to Friday

In step **2**, select the desired days by pressing **DATE –**.
For Example, Ⓐ

Weekly Timer Recording

In step **2**, select the desired day by pressing **DATE –**.
For example, SU (Sunday)

Timer Recording from External Signal Source

If Timer Recording is performed by a unit connected to the AV1/AV2 Socket or the Audio/Video/S-Video input sockets, select the A1, A2 or A3 indicator in step **1** for the programme position.

A1: Through the AV1 socket.
A2: Through the AV2 socket.
A3: Through the AV3 sockets on front panel.
Set **INPUT SELECT** on the VTR.
S-VIDEO; Through the S-VIDEO IN and AUDIO IN sockets.
LINE; Through the VIDEO IN and AUDIO IN sockets.

Selecting the Desired Tape Speed

Press **RECORDING SP/LP** in any of steps **2**–**4**.

Turning PDC/VPS Function On and Off

Press **PDC/VPS** in any of steps **2**–**4**.

Checking a Timer Programme

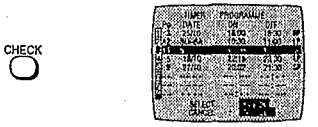
- The VTR must be turned on, or the timer recording indicator "[L]" is lit.
- Select the desired language for On Screen Display first. See page 30.

Press **CHECK**. On Screen Display

Cancelling a Timer Programme

The VTR must be turned on, or the timer recording indicator "[L]" is lit.

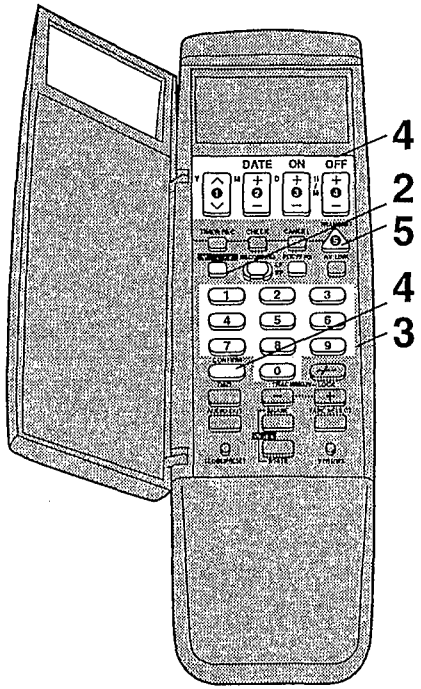
1 Press **CHECK** repeatedly to select the desired timer programme number.



2 Press **CANCEL**.

ShowView Programming

Programming is now easier than ever: simply enter the ShowView number provided in the programme schedule column carried by newspapers and magazines. ShowView numbers are numbers which are assigned to each programme listed in the TV programme schedule carried in newspapers and TV guides. When these numbers are entered and **TRANSMIT** is pressed, the numbers are converted into the actual programming and sent to the VTR.



Preparation

- Insert a cassette tape with an intact erasure prevention tab.
- Set the programme positions on both the VTR and remote controller as shown on pages 12–15.

Operations	Display Symbols

1 *Open the door of the remote controller.*

2 Press **SHOWVIEW.**

3 Enter a ShowView number.
Example: 920216

4 Press **CONFIRM** to check that the number corresponds to the right programme.

- To make any corrections, use buttons ❶–❾.

5 Press **TRANSMIT.**

On Screen Display

6 *Close the door of the remote controller.*

Notes:
- To select the desired tape speed, press **RECORDING SP/LP** in any of steps 3–4.
- To cancel the PDC/VPS function, press **PDC/VPS** in any of steps 3–4.
- When the ShowView number is used for programming, the recording time may be slightly longer than the actual programme time.
- Repeat steps 2 to 4 if "Err" appears on the remote controller.
- When programming two or more programmes, repeat steps 2 to 5.
- The procedures for checking and cancelling whatever has been programmed are the same as for remote control programming.

Assembly Editing

This function can be used to make up an edited tape from other recordings or video sources.

This enables you to record a new segment immediately after a previously recorded segment.

Preparation

- Connect a movie camera or another VTR to this VTR as shown.
- Insert a recorded cassette tape with an intact erasure prevention tab.
- Select the video source required by pressing ∧ ∨ to set A1, A2 or A3.
  - A1: Through the AV1 socket.
  - A2: Through the AV2 socket.
  - A3: Through the AV3 sockets on front panel.
    Set **INPUT SELECT** on this VTR.
    - S-VIDEO; Through the S-VIDEO IN and AUDIO IN sockets.
    - LINE; Through the VIDEO IN and AUDIO IN sockets.

Operations

1 Press **PAUSE/STILL** on the recording VTR.

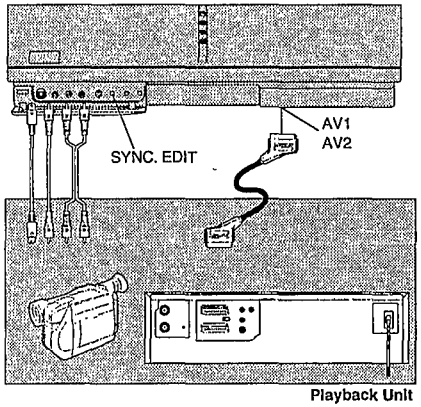
2 Search for the end of the previous recording.

3 Press **REC** to set for the new recording.

4 Press **PAUSE/STILL** again to start the new recording.

5 Press **STOP** to stop recording.

Recording VTR



Playback Unit

Synchronized Editing

It is possible to synchronize the playback start and stop of the Movie Camera with the recording start and stop of this VTR.

- *Connect a Movie Camera* to this VTR with Synchro Connection Cord (optional).

1 Put the VTR in the recording pause mode by pressing **REC** and **PAUSE/STILL.**

2 *Put the Movie Camera in the still playback mode at the point where you want to start editing.*

3 Press **PAUSE/STILL** on the VTR.
- The Movie Camera changes over to the playback mode and the dubbing will start automatically.

Synchronized Editing between the VTRs
When editing from another VTR equipped with Synchro Edit Socket, synchronized start and stop of both VTRs can be activated from this VTR.

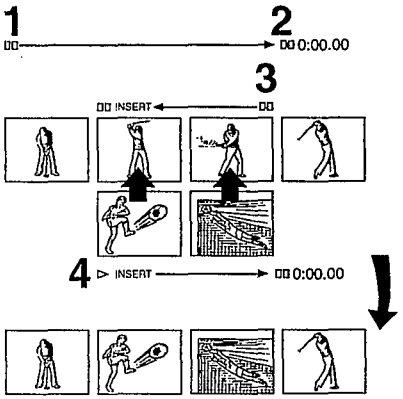
The operation is the same as described for synchronized editing from a Movie Camera.

Insert Editing

This is used to substitute one scene for another providing.

Preparation

- Insert a recorded cassette with an intact erasure prevention tab.
- Select the video source required by pressing ∧ ∨ to set A1, A2 or A3.
  - A1: Through the AV1 socket.
  - A2: Through the AV2 socket.
  - A3: Through the AV3 sockets on front panel.
    Set **INPUT SELECT** on this VTR.
    - S-VIDEO; Through the S-VIDEO IN and AUDIO IN sockets.
    - LINE; Through the VIDEO IN and AUDIO IN sockets.



Operations	Display Symbols	
1		Press **PAUSE/STILL**.
2		Search for the Edit out (ending) point, and set the counter to 0:00.00 by pressing **RESET**.
3		Search for the Edit in (starting) point, and press **INSERT**. • If you want to replace the sound on the "normal" audio track, too, press **AUDIO DUB**.
4		Start insert editing by pressing **PAUSE/STILL**. • The insert editing will finish when the counter reaches 0:00.00.

Note:
Insert Editing cannot be used on blank sections of a tape. In this case use Assembly Editing first.

The new sound will be recorded on the HI-FI sound track. If AUDIO DUB selected, the new sound will also be recorded on the normal sound track.

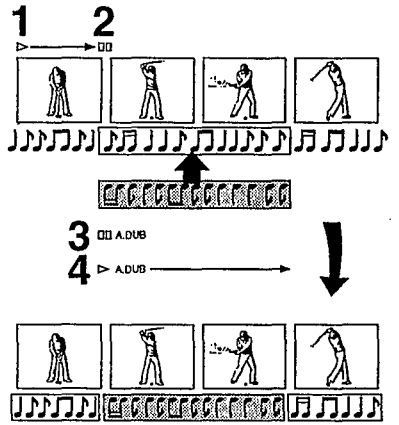
Only monaural sound recording is possible on the normal sound tracks.

Audio Dubbing

The audio dubbing is made on the normal audio track and erases the original sound on this track. On Hi-Fi audio tracks, however, the original sound is maintained.

Preparation

- Insert a recorded cassette with an intact erasure prevention tab.
- Select the audio source required by pressing ∧ ∨ to set A1, A2 or A3.
  - A1: Through the AV1 socket.
  - A2: Through the AV2 socket.
  - A3: Through the AV3 sockets on front panel.



Operations	Display Symbols	
1		Search for the starting point for audio dubbing.
2		Press **PAUSE/STILL** at the starting point.
3		Set for audio dubbing by pressing **AUDIO DUB**.
4		Start recording the new sound by pressing **PAUSE/STILL**. • Stop recording by pressing **STOP**.

Note:
The new sound will be recorded on the normal sound track of the tape, and the original sound will remain on the Hi-Fi sound track. Only monaural sound recording is possible on the normal sound track.

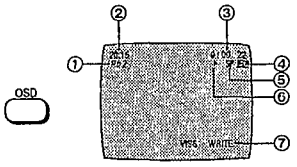
To hear the new sound, select the normal sound track by pressing **AUDIO OUT**.
To hear the new sound and original sound mixed together, set **HI-FI/NORMAL MIX** to ON.

Other Functions

On Screen Display

Press **OSD** to make the On Screen Display appear on the TV screen.

- To make this display disappear, press *OSD* again.



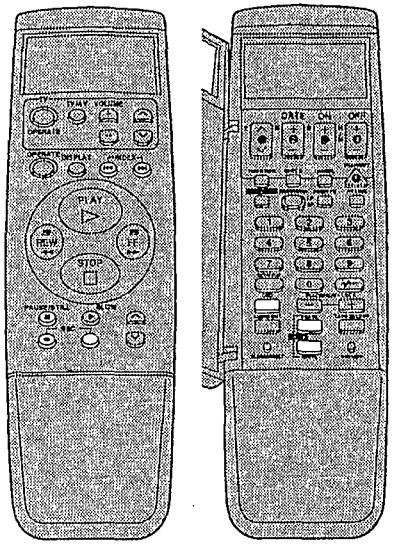
① Programme position
② Present time
③ *Tape counter*
④ Cassette-in Indicator
⑤ Tape speed Indicator
⑥ Tape running display

Stop, Eject	■
Rewind, Review	◀◀
Fast Forward, Cue	▶▶
Playback	▶
Reverse Playback	◀
Still Playback	❚❚
Recording, Insert, Audio Dubbing	●
Recording Pause, Insert Pause, Audio Dubbing Pause	❚❚●
Slow Playback	❚▶
Reverse Slow Playback	◀❚

⑦ Index signal writing or erasing indicator

Notes:

- On Screen Display will not appear during NTSC playback.
- When **EDIT** is set to ON, On Screen Display will not appear.

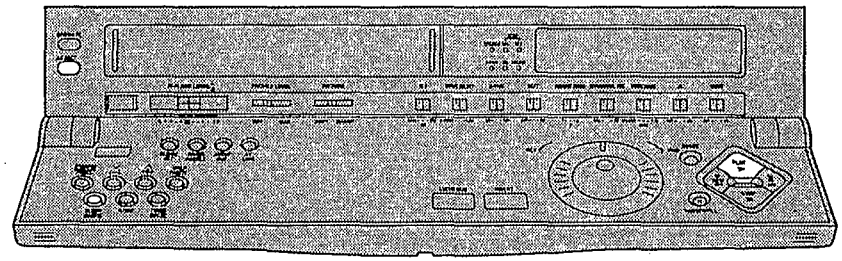


To select the Desired Language

Select one of the seven languages displayed: English, German, French, Italian, Spanish, Dutch and Swedish.

1 Keep **OSD** pressed for more than 3 seconds.

2 Press **OSD** repeatedly to select the desired language.



VHS Index Search System

It is very easy to find the beginning of each recording, because a special index signal is recorded at the start of each recorded segment on the tape.

For example:

Searching for the 2nd recorded segment in the forward direction.

Press **INDEX** ▶▶I twice.

- After finding the specific recorded segment, playback starts automatically.
- For the reverse direction, press **INDEX** I◀◀.
- *Up to 20 programmes can be searched for in both directions.*

Recording Index Signals

Index signals are recorded in following cases.

WRITE indicator appears on the Display.

- When a recording is started by pressing **REC**.
- When **REC** is pressed during recording.
- When timer recording is activated.
- When **WRITE** is pressed during playback.

Erasing Index Signals

1 Search the Index signal to be erased by pressing **INDEX** ▶▶I or I◀◀.
- Be sure not to omit this step. Otherwise, this function may not work correctly.

2 Press **PAUSE/STILL** when playback starts.

3 Press **ERASE**.
- Erasing is possible during playback if **ERASE** is pressed during the five seconds following the index signal.

Notes:

- The Index search function can only work correctly, if the index signals are spaced at least 3 minutes apart in the SP mode and 5 minutes apart in the LP mode.
- Index signals can not be recorded or erased on a video cassette with a broken off tab.

Automatic VTR Off Time Setting

Press **SLEEP** for the desired time.

- *Each press gives a 30 minutes time span up to 9 hours.*
- To cancel the setting time, press **SLEEP** repeatedly to set 0:00.

NTSC Playback

Tapes recorded in the NTSC system can be played back with this VTR via a PAL system TV set.

- The playback picture may roll up or down. If the TV set is equipped with a V-HOLD control, it may be possible to stop the picture movement by adjusting this control.
- Depending on the TV set used, the picture may be in black and white. However, this is not an indication of a malfunction.

Other Automatic Functions

Automatic Playback

When a cassette without an erasure prevention tab is inserted, the VTR starts playback automatically.

VTR-off Playback

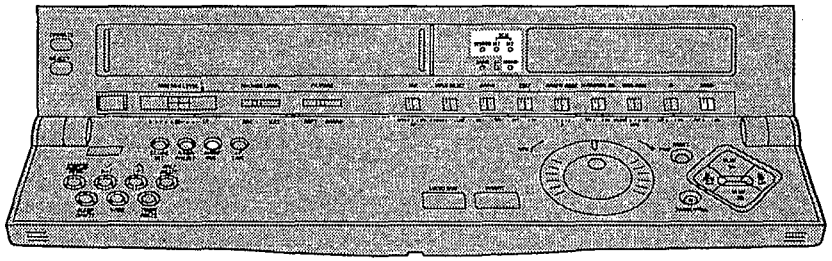
When the VTR is off, an inserted cassette can be played back by pressing **PLAY**.

Automatic Rewinding

When the tape reaches its end during recording (except for timer recording) or playback, it will automatically be rewound to the beginning.

Automatic Switching Off and Ejection

When the VTR is switched off, an inserted cassette can be ejected simply by pressing **EJECT**. The VTR will eject the cassette and automatically turn itself off again.



Hi-Fi Audio System

This VTR is equipped for reception of stereo/bilingual broadcasts both in the NICAM stereo/bilingual sound system employed in the Scandinavia, etc. and in the Stereo/bilingual sound system used in Germany and other Central European countries.

NICAM is a 2 Channel sound broadcast system to provide either a high quality stereo sound track or 2 independant MONO sound tracks, M1 and M2.

NICAM programmes are always accompanied by standard sound broadcasts and you can select the desired sound with **MONO** (when recording) or with **AUDIO OUT** (when playback).

The NICAM digital stereo sound can only be recorded on the Hi-Fi audio track.

When a stereo, bilingual or NICAM programme is being received, the indicators are lit to inform you of the type of broadcast.

Reception of a Stereo Broadcast

When the STEREO indicator is lit, set **MONO** to OFF to be able to record on the Hi-Fi sound track stereo.

Reception of a Bilingual Broadcast

When the M1 and M2 indicators are lit, set **MONO** to OFF if you want to record both channels on the Hi-Fi sound track. M1 is the main channel and M2 is the sub channel.

Reception of a NICAM Stereo Broadcast

When the NICAM and STEREO indicators are lit, set **MONO** to OFF to be able to record on the Hi-Fi sound track in stereo.

Reception of a NICAM Dual-Sound Broadcast

When the NICAM, M1 and M2 indicators are lit, set **MONO** to OFF if you want to record both channels on the Hi-Fi sound track. M1 is the left-hand channel and M2 is the right-hand channel.

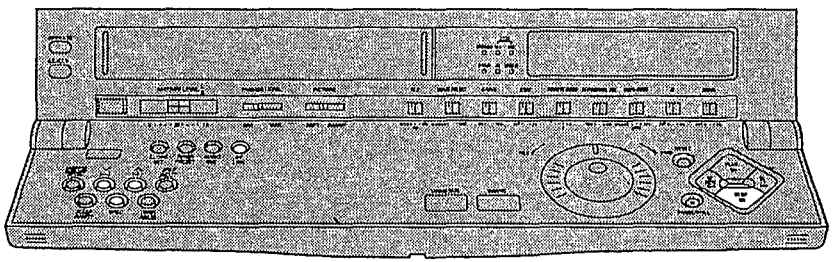
Reception of a NICAM Monaural Broadcast

When a NICAM monaural broadcast is being received, the NICAM and M1 indicators are lit. To hear such a signal on both channels and to record it on both channels of the Hi-Fi track, set **MONO** to OFF.

- To record the regular sound (ordinary normal sound) on the FM audio tracks when a Stereo, Bilingual or NICAM programme is received, set **MONO** to ON.

Important Note for the NICAM System

When this VTR tuner is switched on, it will automatically switch to a NICAM broadcast, if NICAM is being transmitted. During test transmissions, it is possible that the sound received doesn't correspond to the picture being viewed. In order to receive a synchronized sound and picture, select monaural sound with either **AUDIO OUT** or with **MONO**. This will only apply until NICAM transmissions are fully operational.
At this time the NICAM signal is transmitted on stereo channels only, since the M1 and M2 formats are not yet available. Even if the sound track is in MONO, the stereo indicator will remain illuminated.



Pay TV

The connection of a Pay TV (e.g. Canal Plus, Filmnet) Decoder to the AV2 Socket of this VTR makes it possible to record Pay TV broadcasts. When such a decoder is connected to the VTR, it is also possible to watch Pay TV programmes directly on the connected TV set. So only one decoder is necessary. See page 7.

Preparation

- Turn on the VTR, the Pay TV Decoder and the TV set.
- Insert a video cassette with intact erasure prevention tab.
- The VTR must have been preset for reception of Pay TV broadcasts like for any ordinary TV station as described in **"Storing TV Broadcasts into your VTR"** on page 12.

To Record a Pay TV Programme While Watching the Same Pay TV Programme

1 Press **AV LINK** to select the VTR mode.
2 Select the desired Pay TV station.
3 Press **REC** to start recording.
4 Press **STOP** to stop recording.

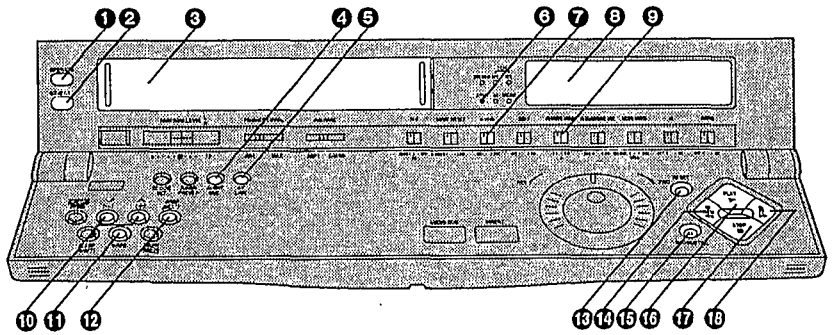
To Record a Normal TV Programme While Watching a Pay TV Programme

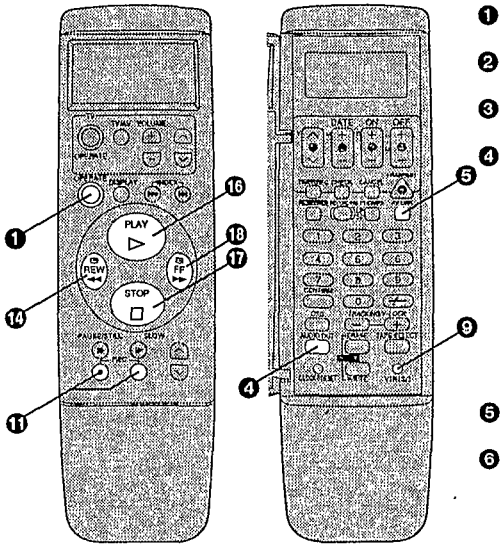
1 Press **AV LINK** to select the TV mode.
2 Select on the VTR the normal TV station that you want to record.
3 Press **REC** to start recording.
4 Select on the TV set the desired Pay TV station for watching.
5 Press **STOP** to stop recording.

To Record a Pay TV Programme While Watching a Normal TV Programme

1 Press **AV LINK** to select the TV mode.
2 Select on the VTR the Pay TV station that you want to record.
3 Press **REC** to start recording.
4 Select on the TV set the desired normal TV station for watching.
5 Press **STOP** to stop recording.

Controls and Connection Sockets





Basic Controls

❶ **OPERATE**
To turn the VTR on and off.

❷ **EJECT**
To eject a video cassette.

❸ **Cassette Compartment**
Insert a video cassette here.

❹ **AUDIO OUT**
To select the desired sound mode.
At the every push of this button, the audio output mode changes as follows.

→Stereo→Left→Right→Normal audio track→

The Left and Right Indicators show which sound mode is selected in the following way.
Stereo: Both the Left and Right Indicators are lit.
Left: The Left Indicator is lit.
Right: The Right Indicator is lit.
Normal: Both the Left and Right Indicators are not lit.

❺ **AV LINK**
To select the VTR mode or TV mode for AV LINK.

❻ **S-VHS Indicator**
Lights up when the S-VHS switch is set to ON.

❼ **S-VHS**
When recording on an S-VHS cassette tape, select the desired recording format with this switch.
ON: The recording will be made in the S-VHS format.
•The S-VHS indicator lights up.
OFF: The recording will be made in the VHS format.
•The S-VHS indicator does not light up.
(It is possible to make a recording on an S-VHS cassette tape in the VHS format, for example, in order to play back the tape on another VHS VTR.)
•When using VHS cassettes, the recording is made in the VHS format irrespective of the position to which this switch is set.
•For playback, it is not necessary to operate this switch.
•When a tape which was recorded in the S-VHS format is played back on a conventional VHS VTR, it is not possible to obtain playback picture.

❽ **Display**

❾ **REMOTE MODE (VTR1/2/3)**
VTR1: Set to this position on both the VTR and remote controller for normal use with one VTR.
VTR2: Set to this position when using two Panasonic VTRs.
VTR3: Set to this position when using three Panasonic VTRs.
This allows the remote controller to be set for operating VTR1, VTR2 or VTR3.

❿ **∨(−) ∧(+)**
To select the required programme position (TV station).
To set the clock and timer recording.

⓫ **REC**
To start a recording.

⓬ **SP/LP (NEXT)**
To select the tape speed required for recording.
SP gives the best picture quality.
LP gives the longest recording time.
To proceed to the next item during setting procedure.

⓭ **RESET**
To reset the tape counter (elapsed time) to "0:00.00".
•The tape counter is automatically reset to "0:00.00" when a video cassette is inserted.

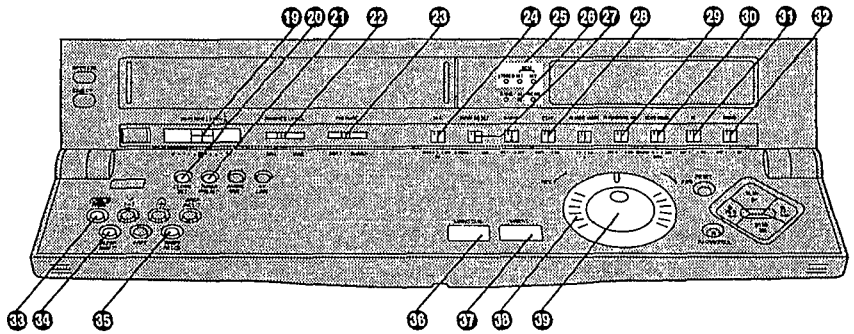
⓮ **REW (REWIND)**
In the stop mode: To rewind the tape.
In the playback mode: To search backward.
In the rewind mode: To obtain high speed picture.
"◁◁" is lit.

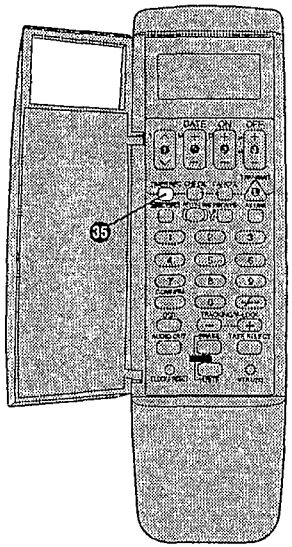
⓯ **PAUSE/STILL**
In the stop mode: Still picture (Jog/Shuttle mode).
During playback: Still picture (Jog/Shuttle mode).
During recording: To interrupt recording.

⓰ **PLAY**
To start playback. "▷" is lit.

⓱ **STOP**
To stop any playback or recording.

⓲ **FF (FAST FORWARD)**
In the stop mode: To fast forward the tape.
In the playback mode: To search forward.
In the fast forward mode: To obtain high speed picture.
"▷▷" is lit.





Advanced Controls

19 HI-FI REC LEVEL
To adjust the recording level to peak at +4 dB on the recording level indicator.

20 CLOCK SET
To set the time.

21 TUNER PRESET
To initiate TV station settings for the tuner.

22 PHONES LEVEL
For adjusting the volume level of connected stereo headphones.

23 PICTURE
To make picture sharper (SHARP) or softer (SOFT).

24 16:9
AUTO: For automatically identifying the pictures as 16:9 pictures or 4:3 pictures during recording and playback and showing them on the wide TV screen.
- Normally set at this position.

ON: For recording and playback in such a way that the pictures expanded to 16:9 are shown on the wide TV screen at all time.
OFF: For recording and playback in such a way that 4:3 pictures are shown on the wide or 4:3 TV screen at all times.

25 Indicators for Stereo, Bilingual and NICAM Reception
When receiving a TV programme, the type of sound system in which it is broadcast is automatically indicated.

26 AI Indicator
Lights up when the AI function is on.

27 INPUT SELECT
When Recording via the AV3 sockets on the front panel, select A3 by pressing ∧ ∨ and set this switch to S-VIDEO or LINE.
S-VIDEO: Through the S-VIDEO IN and AUDIO IN sockets.
LINE: Through the VIDEO IN and AUDIO IN sockets.

28 EDIT
OFF: For normal use of the VTR.
ON: For editing operations when using an editing controller.
- The sound can be heard during special playback.
- In this setting, On Screen Display will not appear and programming a timer recording is not possible.

29 HI-FI/NORMAL MIX
OFF: Normally set at this position to reproduce the better sound available from the Hi-Fi track.
ON: Both sound tracks (the HI-Fi sound track and the normal sound track) are played back mixed together. Use this setting when playing back a cassette tape which has been insert edited or audio dubbed.

30 VIDEO MODE
COLOUR: When performing recording and playback in colour.
AUTO: The VTR automatically distinguishes between colour and black-and-white during recording and playback.
B/W: When performing recording and playback in black-and-white.

31 AI
ON: Using the AI function, recording and playback are performed in the state which achieves optimum picture quality in light of characteristics of a tape.
- The picture sharpness cannot be adjusted in this setting.

OFF: Turns off the AI function.

32 MONO
OFF: Normally set at this position.
ON: Only set at this position to record the normal sound during a stereo, bilingual or NICAM broadcast or if the stereo sound is distorted due to inferior reception conditions.

33 CHECK/PROG
To select a timer programme number.
"1, 2, 3... or 8" is lit.
To display details of preset timer recording.

34 SLEEP (SHIFT)
To set the time to turn off the VTR automatically.
To blank unoccupied programme position.

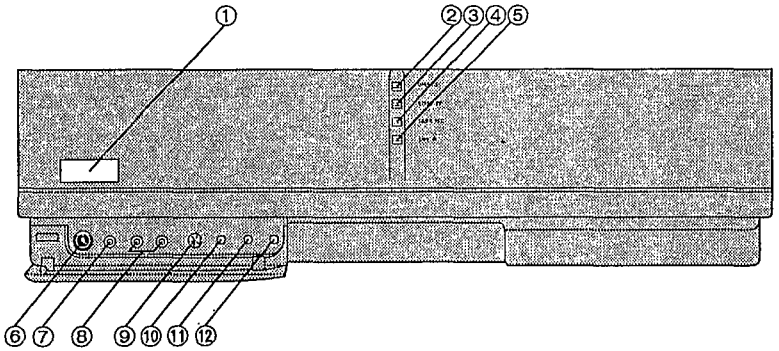
35 TIMER REC
To turn the timer recording function on and off.
⏲ is lit or not lit.
Once Operating timer recording function, the normal VTR operation is not possible unless this button is set to off.

36 AUDIO DUB
To set up the VTR for audio dubbing.
A.DUB indicator lights up.

37 INSERT
To set up the VTR for insert editing.
INSERT indicator lights up.

38 Shuttle Ring
To adjust playback speed backward or forward.

39 Jog Dial
To locate any desired frame with utmost precision.



① **Infrared Remote Control Receiver Window**

② **OPERATE Indicator**
Lights up when the VTR is turned on.

③ **STAND BY Indicator**
Lights up when the AC mains lead is connected and the VTR is turned off.

④ **TIMER REC Indicator**
Lights up when the timer recording function is on.

⑤ **TAPE IN Indicator**
Lights up when a cassette is inserted.

⑥ **S-VIDEO IN (AV3)**
To connect the S-Video cable to a movie camera or to another VTR that has a S-Video output socket.

⑦ **VIDEO IN (AV3)**
To connect the video cable to a movie camera or to another VTR.

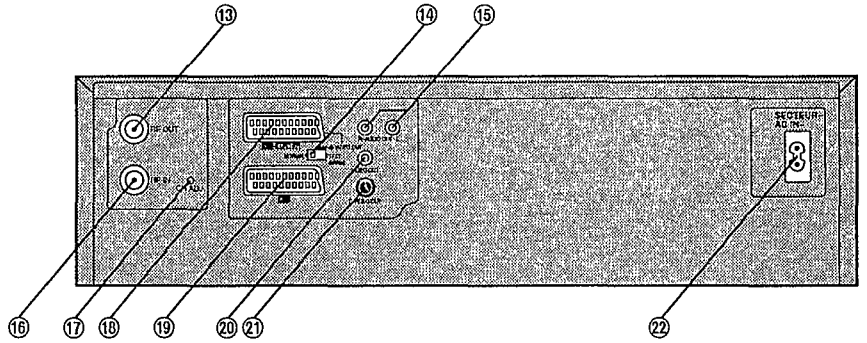
⑧ **AUDIO IN (AV3)**
To connect the audio cable to a movie camera or to another VTR.

⑨ **EDIT**
By connecting the optional Editing Controller (VW-EC300E/VW-EC310E) to this socket, such editing functions as Assemble Editing, Insert Editing and Audio Dubbing can be performed more quickly and efficiently between two VTRs or between a VTR and a movie camera.

⑩ **SYNC. EDIT**
To connect a movie camera or another VTR equipped with synchronized editing capability.

⑪ **MIC**
To connect a microphone for recording. Once connected, this socket has priority.

⑫ **PHONES**
To connect stereo headphones.



⑬ **RF OUT**
To connect to the aerial terminal on a TV set.

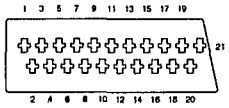
⑭ **NORMAL/S-VIDEO OUT/TEST SIGNAL**
NORMAL: Normally set to this position.
S-VIDEO OUT (AV1):
Set to this position when connecting the VTR to a TV set equipped with 21-pin Euro-AV Connector with pins for separate Y/C signal input.
TEST SIGNAL:
Set to this position when tuning the TV into the VTR.
The test signal is transmitted on channel 36 and AV1.

⑮ **AUDIO OUT**
To connect the sound to a stereo audio system.

⑯ **RF IN**
To connect to the external aerial.

⑰ **CH ADJ.**
To adjust the RF transmitting channel 32–40.

⑱ **AV1**
This 21-pin scart terminal carries input and output signals for both picture and sound. TV sets equipped with a similar socket can be connected here.
This is also called Scart
Peritel
Euro Connector
Euro AV



NORMAL (AV1/AV2)	S-VIDEO (AV1)
1 AUDIO OUTPUT CH2 (R)	1 AUDIO OUTPUT CH2 (R)
2 AUDIO INPUT CH2 (R)	2 AUDIO INPUT CH2 (R)
3 AUDIO OUTPUT CH1 (L)	3 AUDIO OUTPUT CH1 (L)
4 AUDIO GND	4 AUDIO GND
5 BLUE GND	5 No connection
6 AUDIO INPUT CH1 (L)	6 AUDIO INPUT CH1 (L)
7 BLUE	7 No connection
8 SWITCHING VOLTAGE	8 SWITCHING VOLTAGE
9 GREEN GND	9 No connection
10 No connection	10 No connection
11 GREEN	11 No connection
12 No connection	12 No connection
13 RED GND	13 No connection
14 BLANKING GND	14 No connection
15 RED	15 C OUT
16 BLANKING	16 No connection
17 VIDEO OUTPUT GND	17 VIDEO OUTPUT GND
18 VIDEO INPUT GND	18 No connection
19 VIDEO OUTPUT	19 Y OUT
20 VIDEO INPUT	20 VIDEO INPUT
21 GND	21 GND

Caution: RGB reservation for only E/E operation when connecting the Pay TV decoder

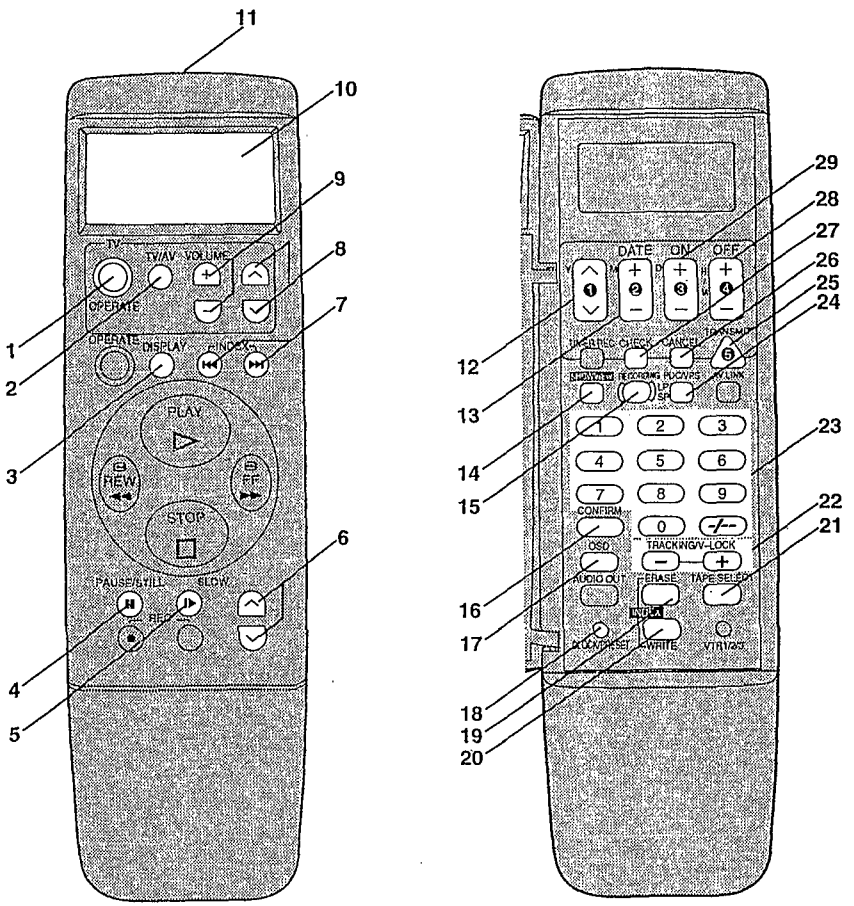
⑲ **AV2**
To connect to a decoder or another VTR.
•Only used as the input socket.

⑳ **VIDEO OUT**
To connect the video cable to a TV or another VTR.

㉑ **S-VIDEO OUT**
To connect the S-Video cable to a TV or another VTR that has a S-Video input socket.

㉒ **AC IN~**
To connect to the main power supply.

Infra-red Remote Controller



1 OPERATE (TV)
To turn the TV on and off.
- With some TV models, it may only be possible to turn the TV off using this button. In this case, use **TV/AV** or **∨ ∧ (TV)** to switch the TV on.

2 TV/AV
To select the TV input.

3 DISPLAY
To change the indication on the VTR Display.

→Clock→Counter→Remaining Tape Time—

4 PAUSE/STILL
During playback: Still picture.
During recording: To interrupt recording.

5 SLOW
To activate slow playback.

6 ∨ ∧ (VTR)
To select the required programme position (TV station) of the VTR.

7 INDEX
For the index search function.

8 ∨ ∧ (TV)
To select the required programme position (TV station) of the TV.

9 VOLUME
To adjust the volume of the TV.

10 Display

11 Infra-red Transmitter
The programming data are transmitted from here to the VTR.

12 ∧ ∨ (Y)
- To programme a timer recording.
- To set the clock.
- To preset the TV stations.

13 DATE (M)
- To programme a timer recording.
- To set the clock.

14 SHOWVIEW
For the ShowView programming.

15 RECORDING SP/LP
To select the tape speed desired for recording.

16 CONFIRM
To convert the data of a ShowView number.

17 OSD
For the On Screen Display Function.

18 CLOCK/PRESET
- To set the clock.
- To preset the TV stations.
- To set the manufacturer number of the TV.

19 ERASE
To erase Index Signals.

20 WRITE
To write Index Signals.

21 TAPE SELECT
To set the cassette tape length in order to obtain correct indication of the remaining tape time.
E195: For E30, -60, -90, -120, -180 and -195 tapes.
E240: For E240 tape.
E260: For E260 and -300 tapes.

22 TRACKING/V-LOCK
For manual tracking adjustment
The + and – buttons are used to adjust the tracking when, for example, noise bars on the picture are better removed manually than by the automatic digital tracking control. After making a manual adjustment, press both buttons together to return to automatic digital tracking control.

For slow tracking adjustment
When noise bars appear during Still, Still Advance or Slow playback, switch over to slow playback and adjust with the + or – Button to reduce the noise bars.

For vertical locking adjustment
Use the + and – buttons to minimize any vertical jitter during still-picture playback.

23 Number Buttons
- To select the programme positions.

9: (9)
19: (-/--)→(1)→(9)

- To enter a ShowView number.

24 PDC/VPS
To turn the PDC/VPS function on and off.

25 TRANSMIT
To transmit the data that has been set on the remote controller to the VTR.

26 CANCEL
To cancel timer programmes.

27 CHECK
To check timer programmes.

28 OFF (H/M)
- To programme a timer recording.
- To set the clock.
- To preset the TV stations.
- To set the manufacturer number of the TV.

29 ON (D)
- To programme a timer recording.
- To set the clock.

SECTION 2
ADJUSTMENT PROCEDURES

2-1. DISASSEMBLY METHOD

2-1-1. DISASSEMBLY FLOW CHART

This flow chart indicates disassembly steps of the cabinet parts and the circuit boards in order to find the necessary items for servicing.
When reassembling, perform the steps in the reverse order.

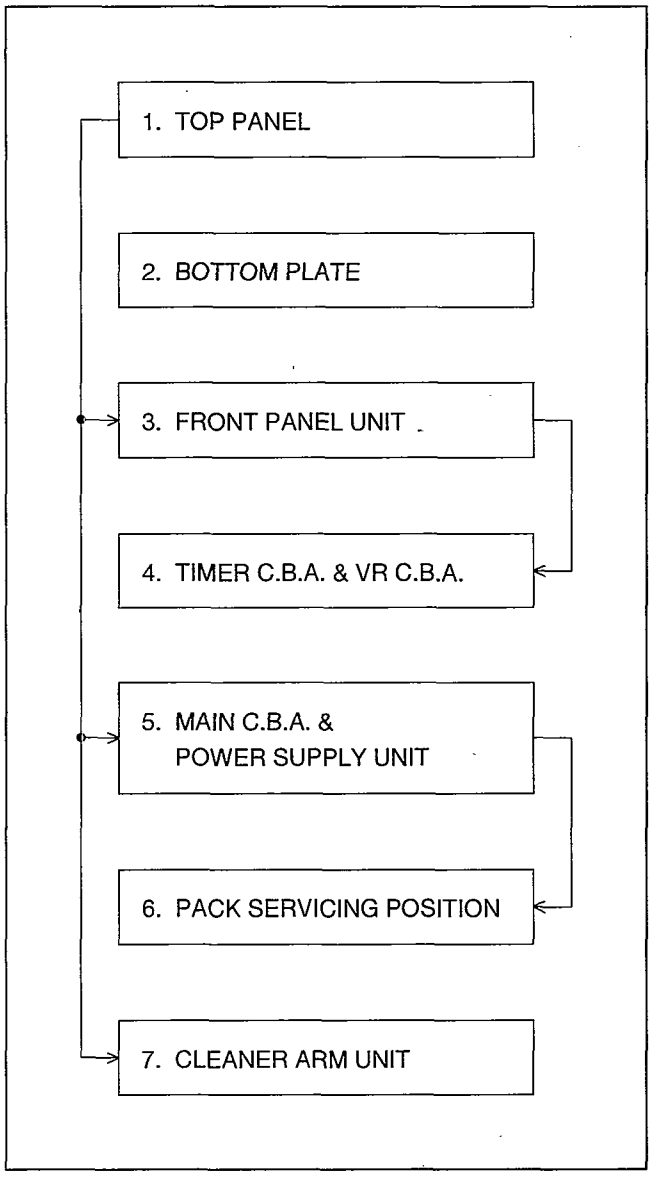


Fig. D1

2-1-2. DETAIL OF DISASSEMBLY METHOD

1. REMOVAL OF THE TOP PANEL

Remove..... 4 Screws (A)

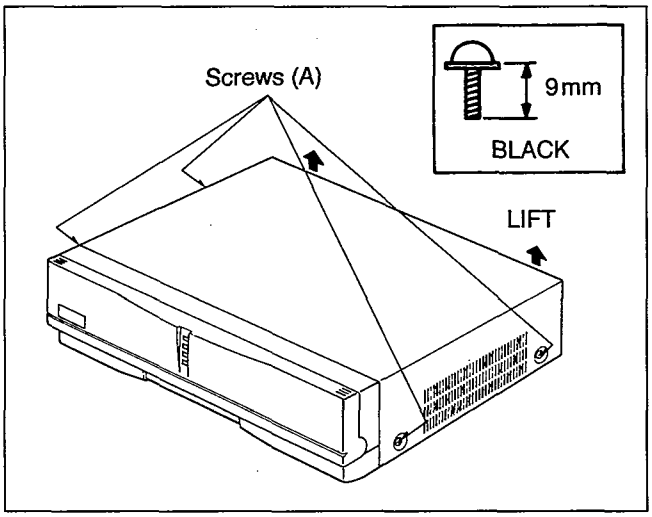


Fig. D2

2. REMOVAL OF THE BOTTOM PLATE

Remove..... 8 Screws (B)

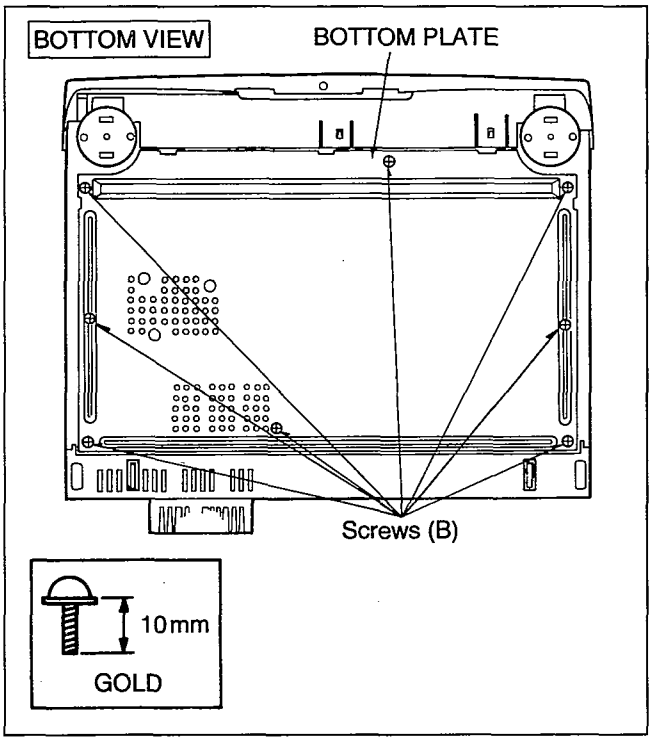


Fig. D3

3. REMOVAL OF THE FRONT PANEL UNIT

Remove..... Screws (C)
Unlock ..... 8 Tabs (D)

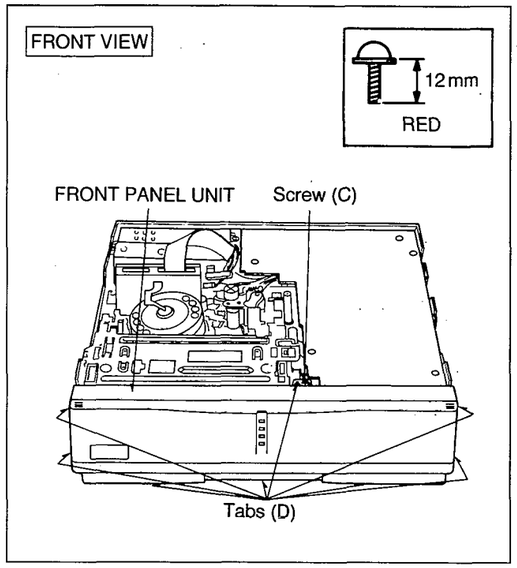


Fig. D4

4. REMOVAL OF THE TIMER C.B.A. & THE VR C.B.A.

Unlock ..... 9 Tabs (F)

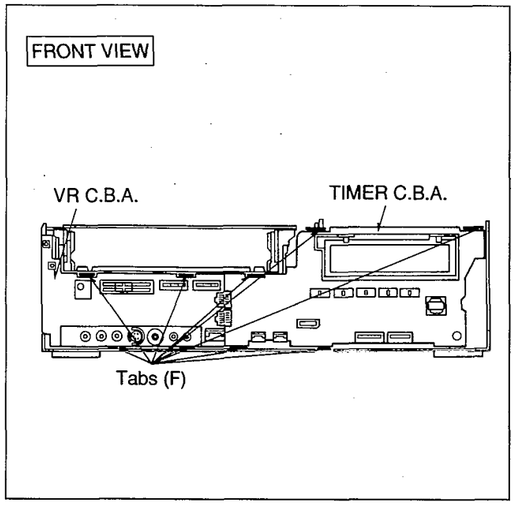


Fig. D5

5. REMOVAL OF THE MAIN C.B.A. & THE POWER SUPPLY UNIT

REMOVAL OF THE MAIN C.B.A.

Remove..... 3 Screws (G)
Remove..... 2 Screws (H)
Unlock ..... Tab (I)

REMOVAL OF THE POWER SUPPLY UNIT

Remove..... 2 Screws (J)
Remove..... Screws (K)
Unlock ..... 2 Screws (L) and The HEAT SINK COVER
Remove..... Screw (M) and The HEAT SINK

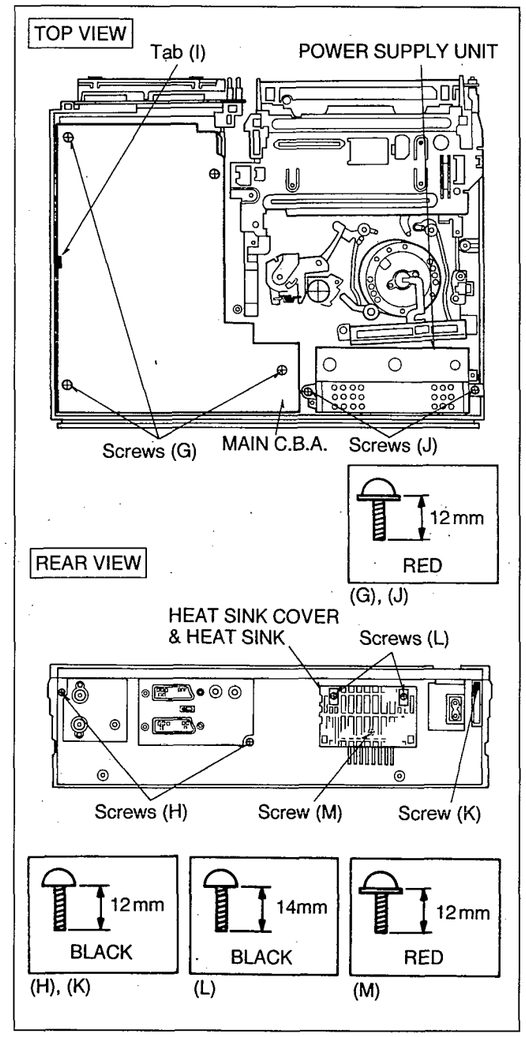


Fig. D6

6. PACK SERVICING POSITION

CAUTION:
Confirm the isolation between Mechanical Chassis and Main C.B.A. before connecting Main AC.

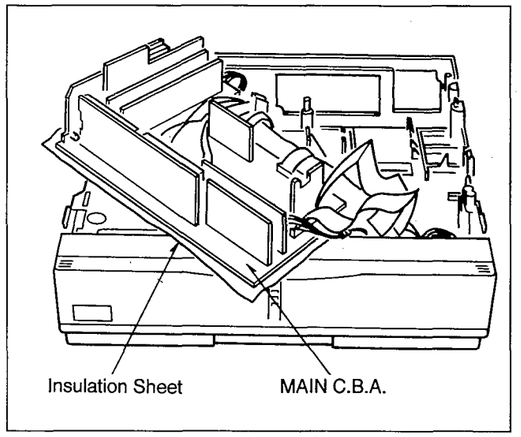


Fig. D7

7. REMOVAL OF THE CLEANER ARM UNIT

1. Unlock the locking portion (N).
2. Pull up the Cleaner Arm Unit.

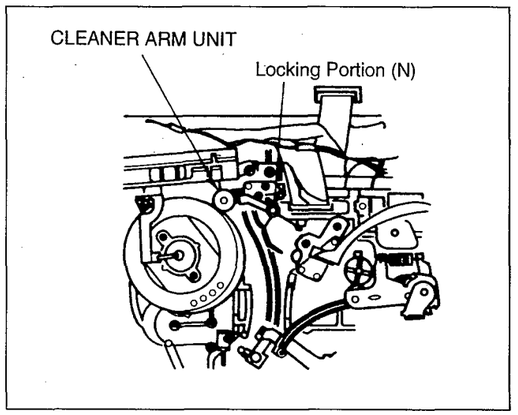


Fig. D8

2-2. MECHANICAL ADJUSTMENT PROCEDURES

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

CAUTIONS:

To make a Adjustment Mode for Tape interchangeability, connect a Jumper wire which has been cut as shown in Fig. M1.
(Auto Tracking is turned off)
After finishing the adjustment, disconnect the jumper wire.

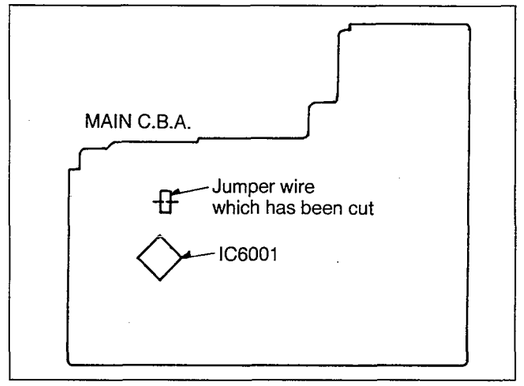


Fig. M1

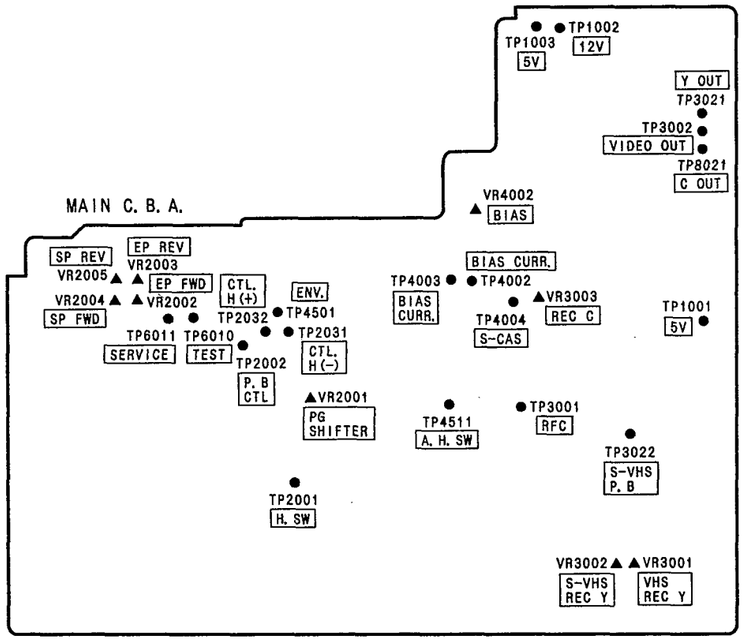
2-3. DISASSEMBLY PROCEDURES OF MECHANISM

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

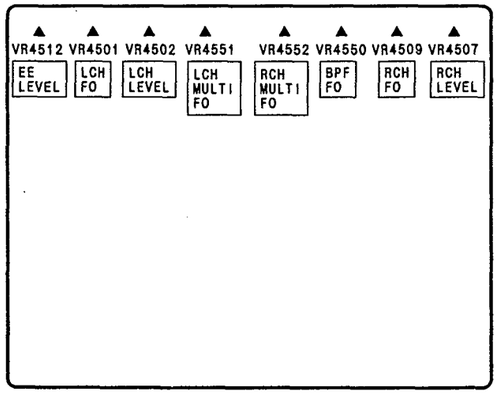
2-4. ASSEMBLY PROCEDURES OF MECHANISM

The mechanical chassis of this model is the K Mechanical Chassis.
Therefore refer to the Service Manual for K Mechanical Chassis. (Order No. VRD9307M131)

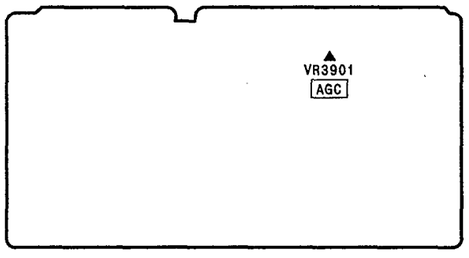
LOCATION OF TEST POINTS & CONTROLS



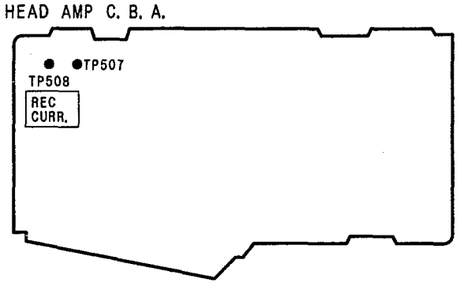
HI-FI AUDIO PACK C. B. A.



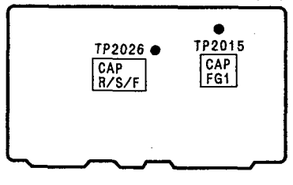
INPUT/OUTPUT PACK C. B. A.



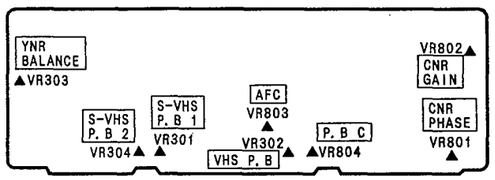
HEAD AMP C. B. A.



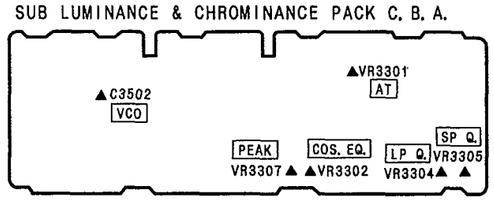
CAPSTAN DRIVE PACK C. B. A.



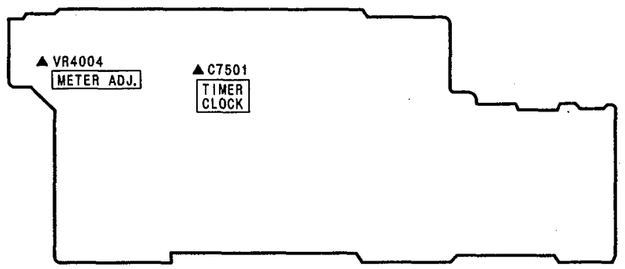
LUMINANCE & CHROMINANCE PACK C. B. A.



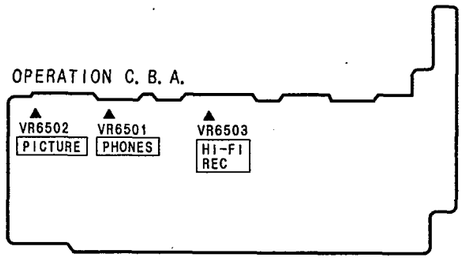
SUB LUMINANCE & CHROMINANCE PACK C. B. A.



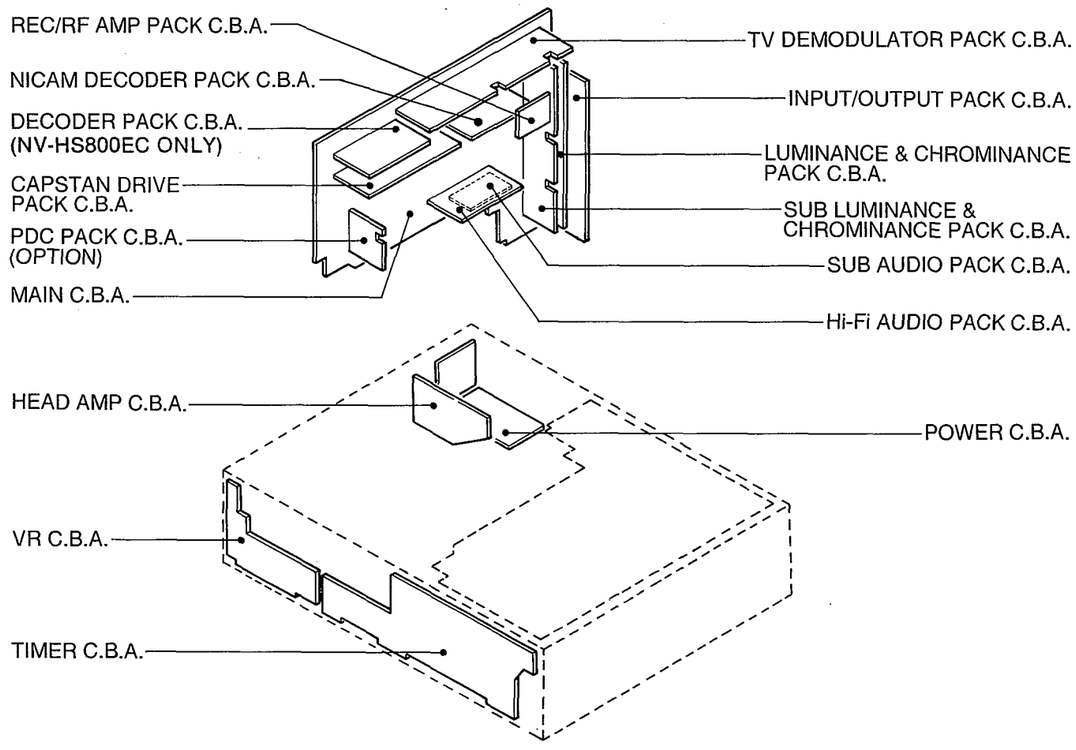
TIMER C. B. A.



OPERATION C. B. A.



CIRCUIT BOARD LAYOUT



2-5. ELECTRICAL ADJUSTMENT PROCEDURES

This section provides complete adjustment procedures required for electric circuits of VHS Video Cassette Recorders.

2-5-1. TEST EQUIPMENT

To perform electrical adjustments following equipment is required.

1. Dual-Trace Oscilloscope. (More than 35MHz)
   Voltage Range: 0.005-5V/div
   Frequency Range: DC-35MHz
   Probes: 10:1 OR 1:1
2. Frequency Counter.
   Frequency Range: 0-10MHz
   Probes: 1:1
3. Universal Counter.
4. Digital Volt Meter. (D.V.M.)
5. Video Sweep Generator.
6. Sine Wave Generator.
7. Video Pattern Generator.
8. VHS Alignment Tape. (VFJ8125H3F)
9. VHS Blank Tape.
10. Monitor.
11. Plastic Tip Driver.
12. DC Power Supply.

2-5-2. PREPARATION

During adjustment, set each selector as follows: when no indication in the procedure.

NORMAL/Y/C/TEST SIGNAL SW (REAR)...NORMAL
VIDEO MODE SW.....AUTO
AI SW.....ON
EDIT SW.....ON
HIFI/NORMAL MIX SW.....OFF
PICTURE VR.....CENTRE FIX
HIFI REC LEVEL VR.....CENTRE FIX
CHANNEL.....A1/A2/A3
(Set to signal input terminal number)
16:9 SW.....AUTO
AV3 INPUT SELECT SW.....S-VIDEO/LINE
(Set to signal input terminal)
S-VHS SW.....ON
NICAM/MONO SW (NV-HS800B).....NICAM
MONO SW (NV-HS800EC).....OFF

2-5-3. HOW TO READ ADJUSTMENT PROCEDURES

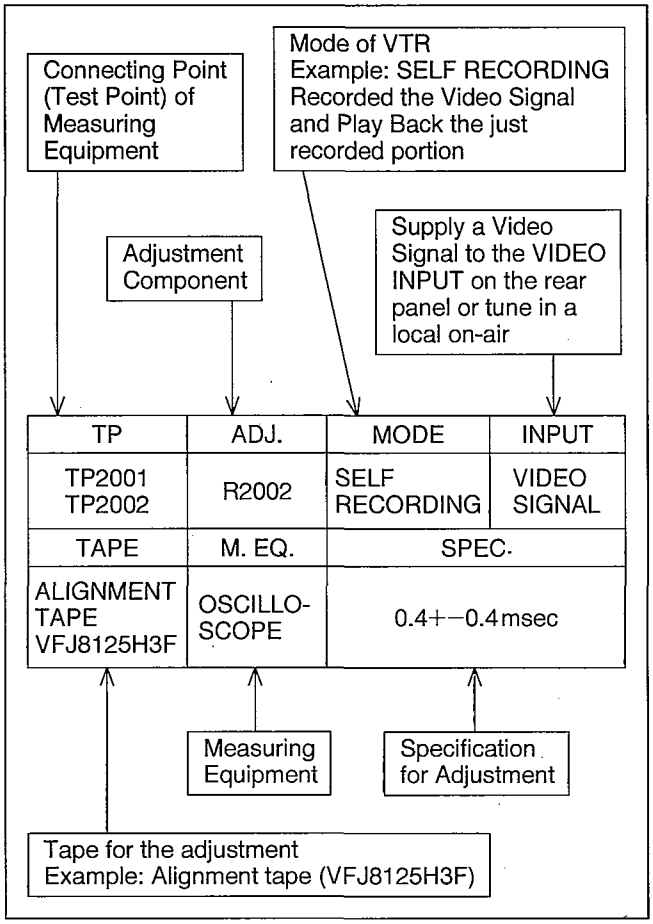


Fig. E1

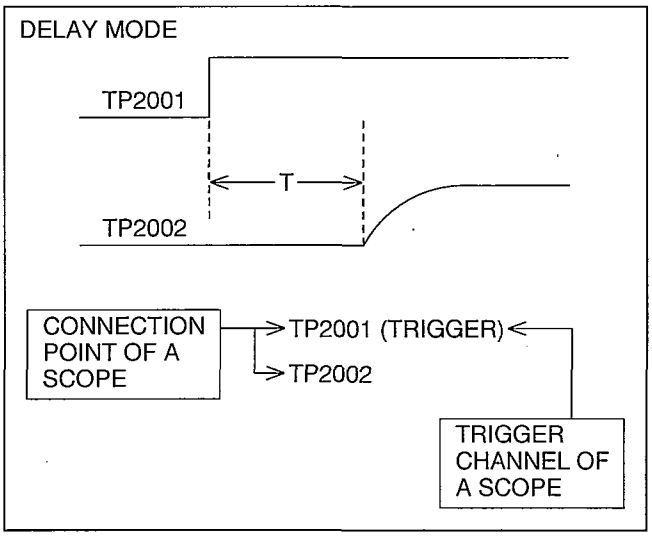


Fig. E2

SERVO SECTION

2-5-4. PG SHIFTER ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP2001 (TEST LAND) VIDEO OUT	VR2001	PLAYBACK	
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE VFJ8125H3F	OSCILLO-SCOPE	8.0+−0.5 (H)	

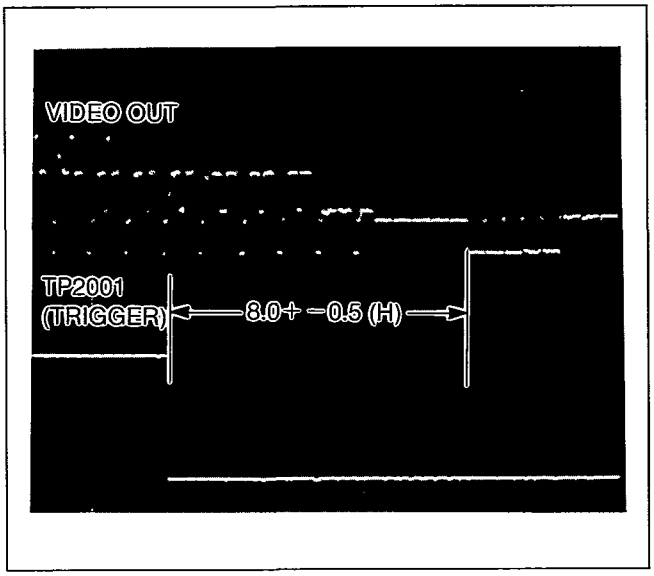


Fig. E3

2-5-5. SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2004 (SP) VR2002 (LP)	(SELF RECORDED) SLOW	CCIR PATTERN
TAPE	M. EQ.	SPEC.	
BLANK TAPE	MONITOR TV	Noise bar on the monitor screen is minimized. (Shown in Fig. E5)	

Note: 1. Before this adjustment, connect a jumper wire which has been cut as shown in Fig. E4.
2. After connecting a jumper wire, press the TRACKING (+) and (−) buttons on the Remote Controller simultaneously to set the tracking to centre fix position.
3. After this adjustment, disconnect a jumper wire.

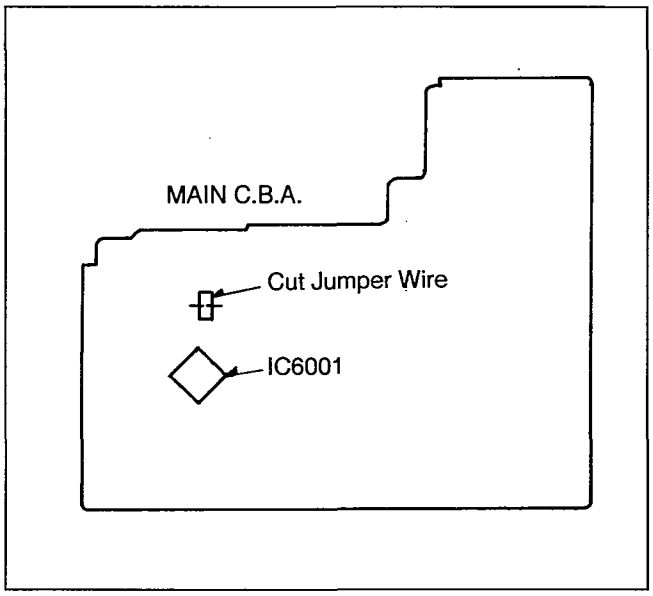


Fig. E4

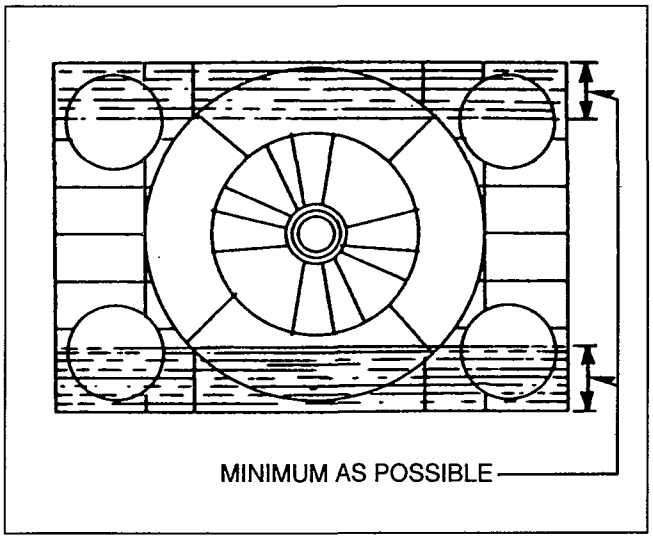


Fig. E5

2-5-6. REVERSE SLOW TRACKING ADJUSTMENT

TP	ADJ.	MODE	INPUT
MONITOR SCREEN	VR2005 (SP) VR2003 (LP)	(SELF RECORDED) REV SLOW	CCIR PATTERN
TAPE	M. EQ.	SPEC.	
BLANK TAPE	MONITOR TV	Noise bar on the monitor screen is minimized. (Shown in Fig. E5)	

REV SLOW: REVERSE SLOW

Note: 1. Before this adjustment, connect a jumper which has been cut as shown in Fig. E4.
2. After connecting a jumper wire, press the TRACKING (+) and (−) buttons on the Remote Controller simultaneously to set the tracking to centre fix position.
3. After this adjustment, disconnect a jumper wire.

2-5-7. AUTO TRACKING GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
PP3011-1	VR3301	STOP	SINEWAVE 4MHz/200mVp-p (TO PP3011-2)
TAPE	M. EQ.	SPEC.	
	SINEWAVE GENE./ D.V.M.	3.1+−0.1 (V)	

Note: 1. After connecting the Sinewave Generator to PP3011-2, set the signal level to 4MHz/200mVp-p.

LUMINANCE & CHROMINANCE SECTION

2-5-8. ARTIFICIAL NTSC FREE RUN ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC802-9 (TL803)	VR803	STOP	
TAPE	M. EQ.	SPEC.	
	FREQUENCY COUNTER/ SINEWAVE GENERATOR	15735+−100 (Hz)	

Note: 1. Supply +5V DC to IC802-27 (TL802).
2. Turn VR803 to maximum frequency, then adjust VR803 until the specification.

2-5-9. RECORDING CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP507 (HOT) TP508 (GND)	VR3001 (VHS Y) VR3002 (S-VHS Y) VR3003 (C)	SP RECORDING	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
S-VHS BLANK TAPE	OSCILLO-SCOPE	VHS Y : 110+−5 (mVp-p) S-VHS Y: 120+−5 (mVp-p) C : 28+−2 (mVp-p)	

Note: 1. Set the AI SW to OFF position.
2. When adjusting the S-VHS Luminance level, set the S-VHS SW to ON position.
3. When adjusting the VHS Luminance level, set the S-VHS SW to OFF position.
4. Adjust the Luminance level until the peak level of V-SYNC is 110+−5mVp-p (VHS MODE), 120+−5mVp-p (S-VHS MODE).
5. When adjusting the Chrominance level, Supply +5V DC to PP3001-6 (TL14) to eliminate Luminance component.

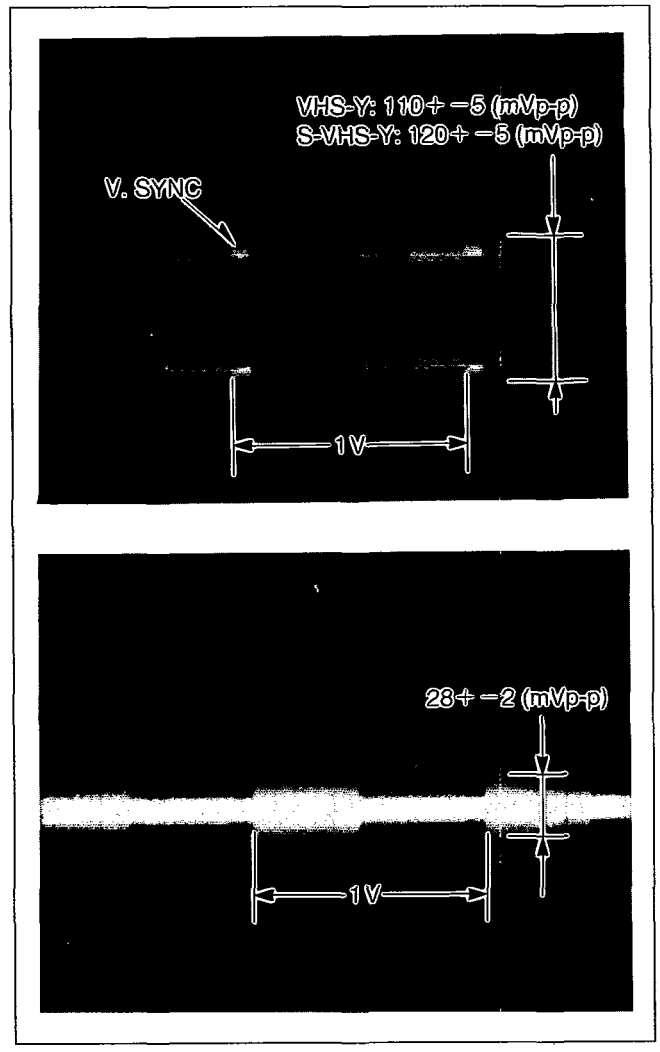


Fig. E6

2-5-10. VHS FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
VIDEO OUT	VR3305 (SP) VR3304 (LP)	SP/LP (SELF RECORDED) PLAYBACK	VIDEO SWEEP SIGNAL (Shown in Fig. E7)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SP: 0+−1(dB) (90−110%) LP: −1+−1(dB) (80−100%)	

Note: 1. Set the Video Sweep Signal as shown in Fig. E7.
2. Set the AI and S-VHS SW to OFF position.
3. Set the VIDEO MODE SW to B/W position.

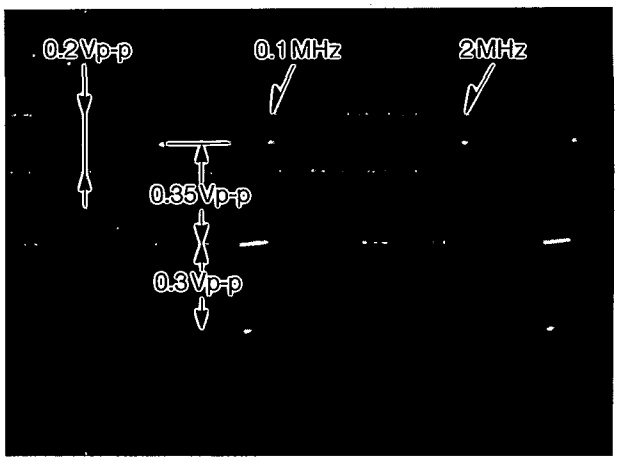


Fig. E7

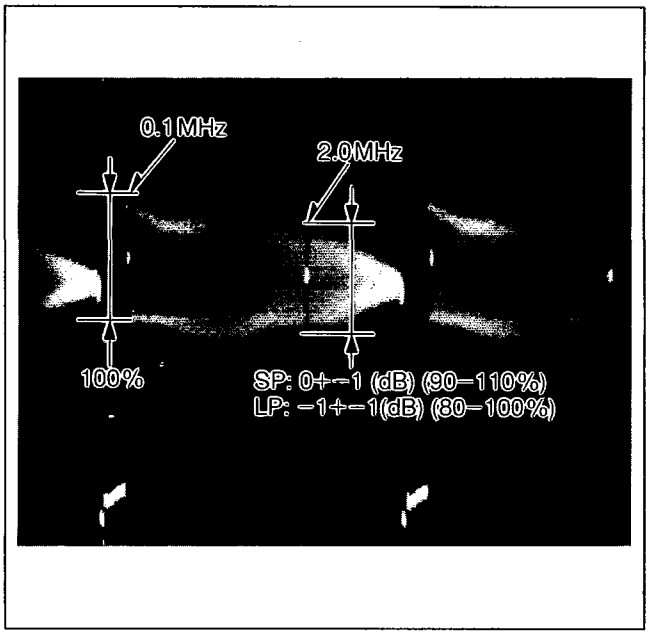
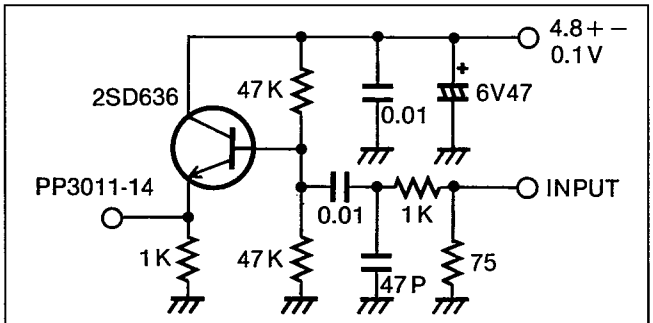


Fig. E8

2-5-11. RF PEAK FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
PP3011-18	VR3307	PLAYBACK	VIDEO SWEEP SIGNAL (PP3014-14)
TAPE	M. EQ.	SPEC.	
ALIGNMENT TAPE (VFJ8125H3F)	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SIGNAL LEVEL AT 7MHz PORTION IS MAXIMUM	

Note: 1. Connect the Service Circuit as shown in Fig. E9.
2. Disconnect P501 (from MAIN C.B.A. to HEAD AMP PACK C.B.A.).
3. Set VR3302 to centre position.
4. Connect a jumper wire between PP3011-5 and GND.
5. Set the Video Sweep Signal Generator (video signal only) as shown in Fig. E10.
6. Supply set up video sweep signal to PP3011-14 via Service Circuit.
7. Adjust VR3307 until the signal level at 7MHz portion is miximum as shown in Fig. E11.
8. After this adjustment, connect P501.



(Example)

75 ohm: ERDS2TJ750	0.01μ: ECCF1H104ZF
1Kohm: ERDS2TJ102	47P: ECCF1H470JC
47Kohm: ERD2TJ473	6V47μ: ECEA0JK470

Fig. E9

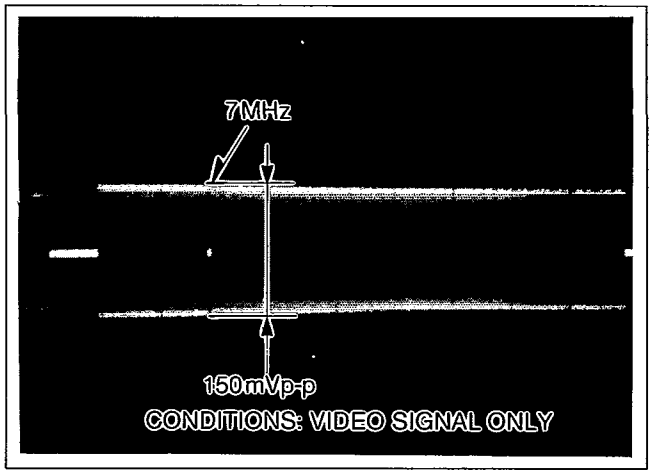


Fig. E10

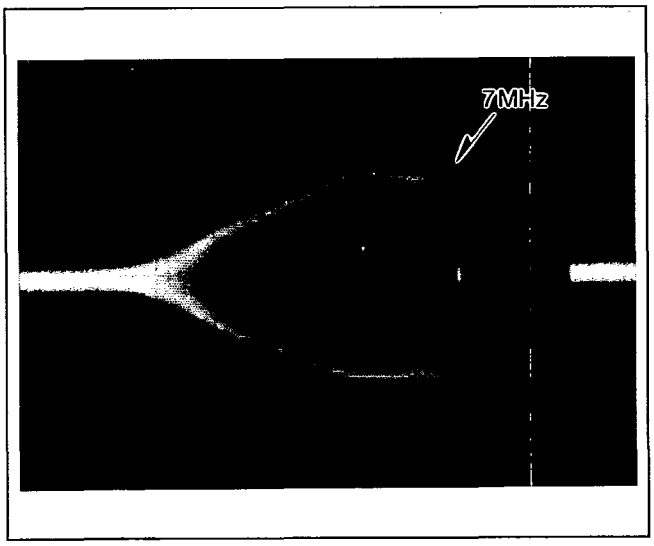


Fig. E11

2-5-12. S-VHS FREQUENCY RESPONSE ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3021	VR3302 (SP)	SP (SELF RECORDED) PLAYBACK	VIDEO SWEEP SIGNAL (P3002-10)
TAPE	M. EQ.	SPEC.	
S-VHS BLANK TAPE	OSCILLO-SCOPE/ VIDEO SWEEP GENERATOR	SP: −4.5+−1(dB) (55−70%) LP: −6+−4(dB) (30−80%)	

Note: 1. Before this adjustment, RF PEAK ADJUSTMENT must be done.
2. Set the Video Sweep Signal as shown in Fig. E12.
3. Set the AI SW to OFF position.
4. Connect a jumper wire between PP3003-5 and GND.
5. After this adjustment, disconnect the jumper wire.

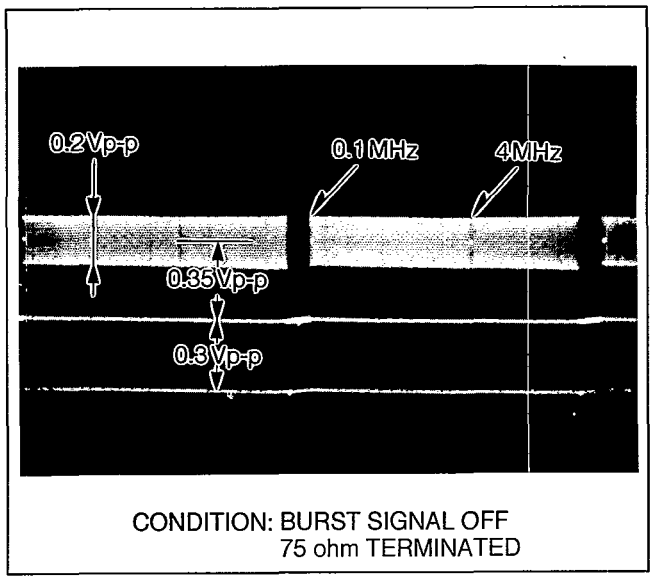


Fig. E12

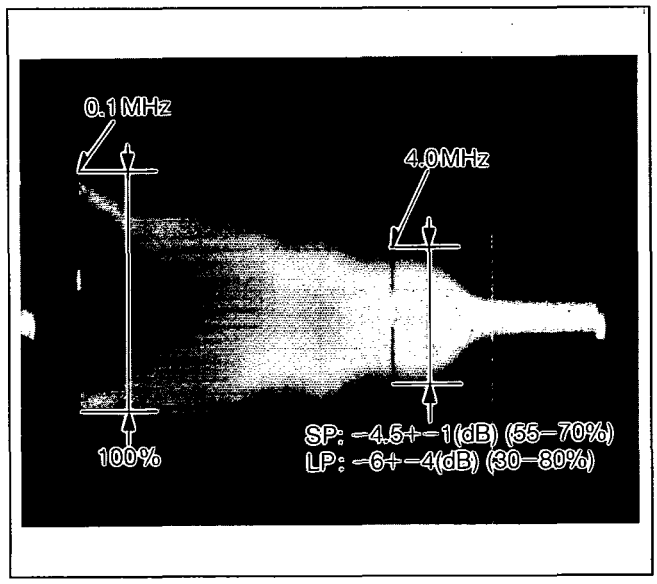


Fig. E13

2-5-13. VHS PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3021 (Y) TP8021 (C)	VR302 (Y) VR804 (C)	SP (SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	Y: 2.0+−0.1 (Vp-p) C: 1.1+−0.1 (Vp-p)	

Note: 1. Set the S-VHS SW to OFF position.

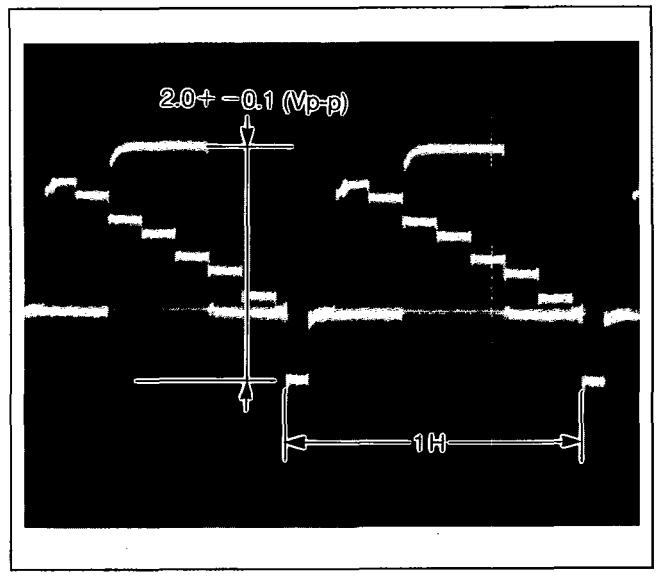


Fig. E14

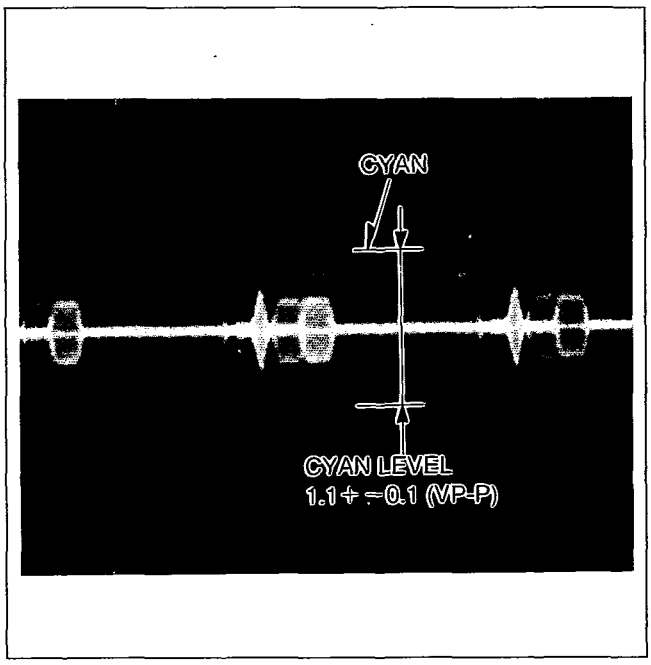


Fig. E15

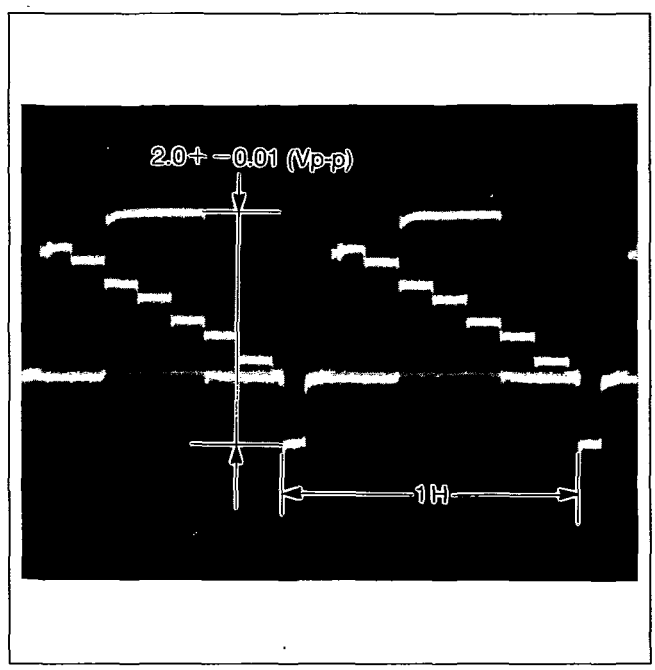


Fig. E17

2-5-14. S-VHS PLAYBACK LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP3022 (Y1) TP3021 (Y2)	VR301 (Y1) VR304 (Y2)	SP (SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
S-VHS BLANK TAPE	OSCILLO-SCOPE	Y1: 0.38+−0.01(Vp-p) Y2: 2.0+−0.01(Vp-p)	

Note: 1. Set the S-VHS SW to ON position.
2. Before this adjustment, VHS PLAYBACK LEVEL ADJUSTMENT must be done.

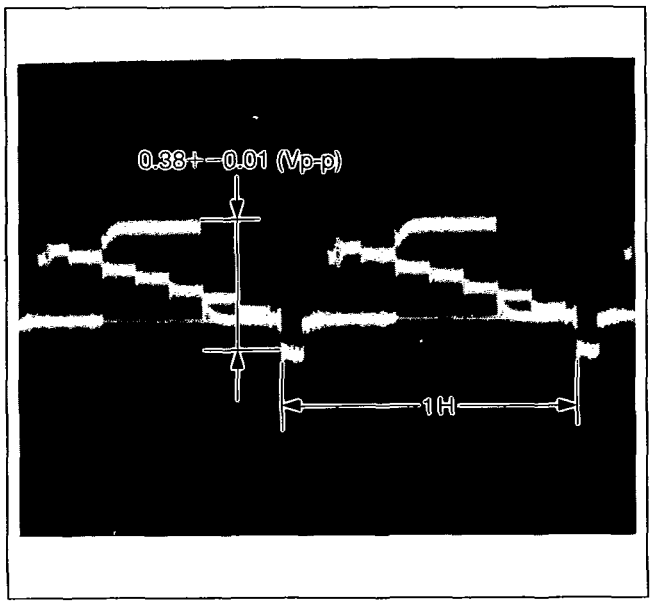


Fig. E16

2-5-15. YNR ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC301-34	VR303	LP RECORDING	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMUM	

Note: 1. Connect the capacitor (1500pF) between IC301-34 and GND as shown in Fig. E18.

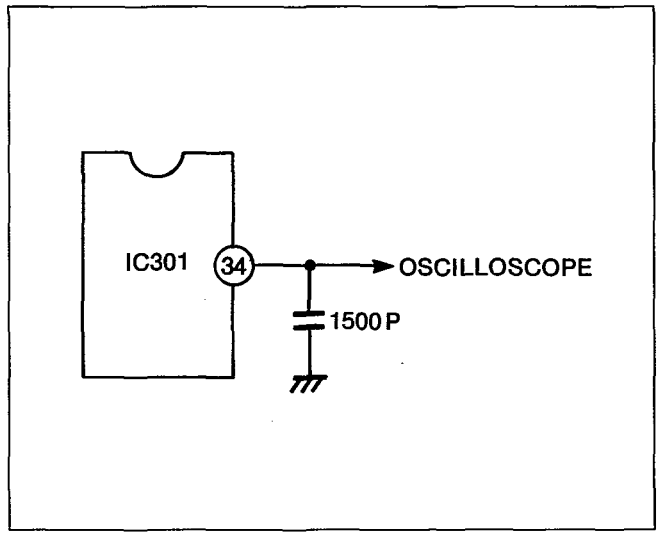


Fig. E18

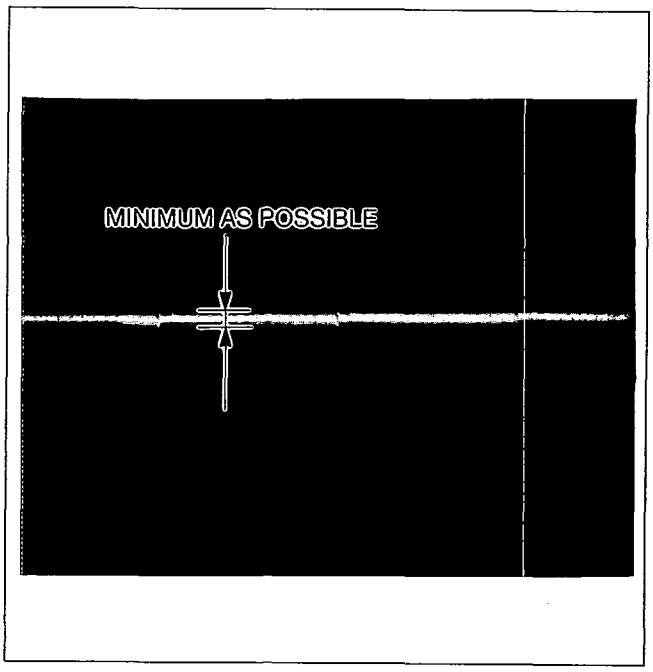


Fig. E19

2-5-16. CHROMINANCE RECURSIVE ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC801-7	VR801 VR802	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	WAVEFORM IS MINIMUM	

Note: 1. Before this adjustment, RECORDING CURRENT and YNR ADJUSTMENT must be done.
Note: 2. Adjust VR801 and VR802 alternately until the amplitude of the signal at IC801-7 is minimum.

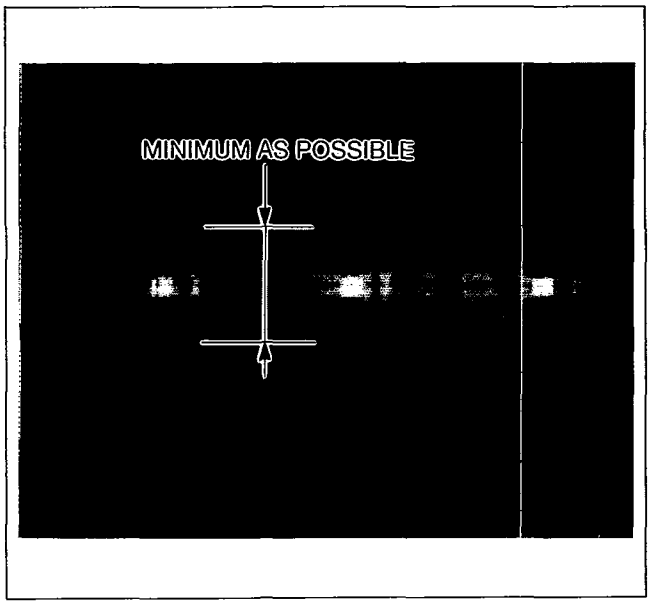


Fig. E20

2-5-17. 1H DELAY GAIN ADJUSTMENT

TP	ADJ.	MODE	INPUT
P9001-1 P9001-3	VR9501	(SELF RECORDED) PLAYBACK	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	SIGNAL LEVEL OF P9001-3 +−0.03 (Vp-p)	

Note: 1. Set the S-VHS and TBC SW to OFF position.
Note: 2. Connect the oscilloscope to P9001-1 and 3.
Note: 3. Adjust VR9501 until the level of P9001-1 is level of P9001-3 +−0.03 Vp-p.

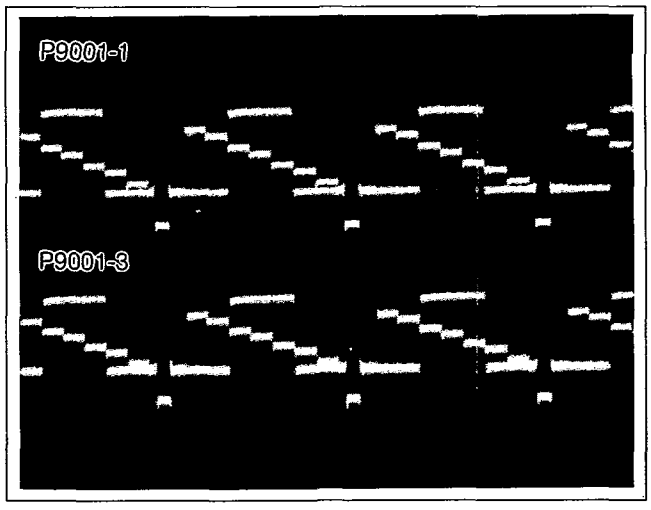


Fig. E21

2-5-18. AGC LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
PP3023-1	VR3901	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
BLANK TAPE	OSCILLO-SCOPE	1.0+−0.04 (Vp-p)	

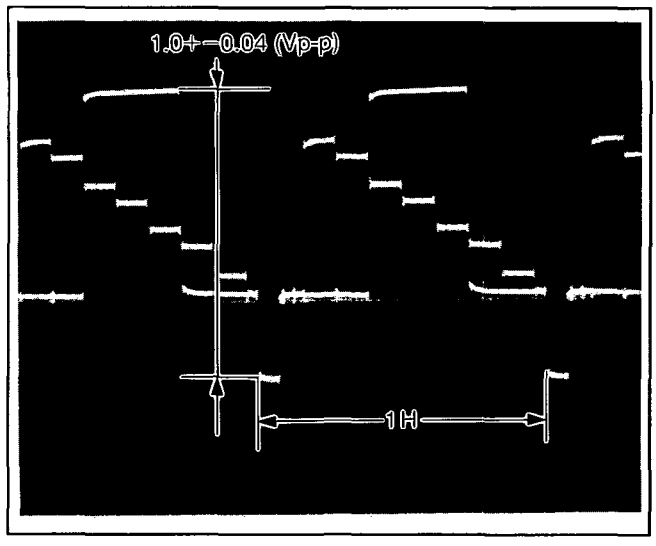


Fig. E22

AUDIO SECTION

2-5-19. BIAS CURRENT ADJUSTMENT

TP	ADJ.	MODE	INPUT
TP4002 (HOT/ TEST LAND) TP4003 (GND/ TEST LAND)	VR4002	RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	V.T.V.M.	3.0+−0.1 (mVrms)	

Note: 1. Connect a jumper wire between TP4004 and GND.
2. Set the S-VHS SW to OFF position.

2-5-20. HiFi E-E LEVEL ADJUSTMENT

TP	ADJ.	MODE	INPUT
AUDIO OUT (L)	VR4512	STOP	SINEWAVE 1KHz/−6dB (AUDIO IN (L))
TAPE	M. EQ.	SPEC.	
	V.T.V.M./ SINEWAVE GENERATOR	−8+−0.5 (dB)	

Note: 1. Select the STEREO mode by Remote Controller. (Both Left and Right indicators on the FIP are lit.)
2. Set the HIFI REC VR to FIX position.

2-5-21. CARRIER FREQUENCY ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-34 (L) IC4501-47 (R)	VR4501 (NTSC-L) VR4509 (NTSC-R) VR4551 (PAL-L) VR4552 (PAL-R)	SP RECORDING	
TAPE	M. EQ.	SPEC.	
BLANK TAPE	FREQUENCY COUNTER	NTSC-L: 1.3+−0.003 (MHz) NTSC-R: 1.7+−0.003 (MHz) PAL-L: 1.4+−0.003 (MHz) PAL-R: 1.8+−0.003 (MHz)	

Note: 1. When adjusting the NTSC mode, connect a jumper wire between PP3013-13 and GND.
2. When adjusting the PAL mode, disconnect a jumper wire.

2-5-22. DEVIATION ADJUSTMENT

TP	ADJ.	MODE	INPUT
BETWEEN VR4502 and R4511 (L) BETWEEN VR4507 and R4561 (R)	VR4502 (L) VR4507 (R)	SP RECORDING	SINEWAVE 1KHz/−6dB (AV1 IN)
TAPE	M. EQ.	SPEC.	
BLANK TAPE	V.T.V.M./ SINEWAVE GENERATOR	110 (mVrms)	

Note: 1. Before recording the sinewave, adjust the HIFI REC VR until the audio output level of AV1 is 400mVrms.

2-5-23. FM B.P.F. ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC4501-33 (L) IC4501-48 (R)	VR4550	PLAYBACK	SINEWAVE 1.608MHz/ 400mVp-p (PS4003-8)
TAPE	M. EQ.	SPEC.	
NTSC RECORDED TAPE	OSCILLO-SCOPE/ SINEWAVE GENERATOR	Lch (IC4501-33)= Rch (IC4501-48)	

Note: 1. Disconnect P501 (from MAIN C.B.A. to HEAD AMP PACK C.B.A.).
2. Connect a jumper wire between PP4003-16 and GND.
3. The GND lead of oscilloscope must be connected to GND on HIFI AUDIO PACK C.B.A. to reduce the noise.
4. Supply the sinewave signal (1.608MHz/400mVp-p) to PS4003-8.
5. After this adjustment, connect P501 and disconnect the jumper wire.

TIMER SECTION

2-5-24. TIMER REFERENCE CLOCK ADJUSTMENT

TP	ADJ.	MODE	INPUT
TL7501	C7501	STOP	
TAPE	M. EQ.	SPEC.	
	UNIVERSAL COUNTER	7812.5+−0.015 (μsec)	

2-5-25. LEVEL METER SENSITIVITY ADJUSTMENT

TP	ADJ.	MODE	INPUT
LEVEL METER ON THE FIP	VR4004	STOP	SINEWAVE 1KHz/−6dB (AUDIO IN (L), (R))
TAPE	M. EQ.	SPEC.	
		0dB INDICATOR ON THE AUDIO LEVEL METER JUST LIGHTS UP	

Note: 1. Select the STEREO mode.
(Both Left and Right indicators on the FIP are lit.)
2. Before recording the sinewave, adjust the HIFI REC VR until the signal level at Audio Output Terminal is 400mVrms.

2-5-26. CHARACTER GENERATOR VCO ADJUSTMENT

TP	ADJ.	MODE	INPUT
IC3501-26 (TL3)	C3502	STOP	PAL COLOUR BAR
TAPE	M. EQ.	SPEC.	
	V.T.V.M.	2.5+−0.25V	

Memo

SECTION 3
BLOCK DIAGRAMS

3-1. ABBREVIATIONS

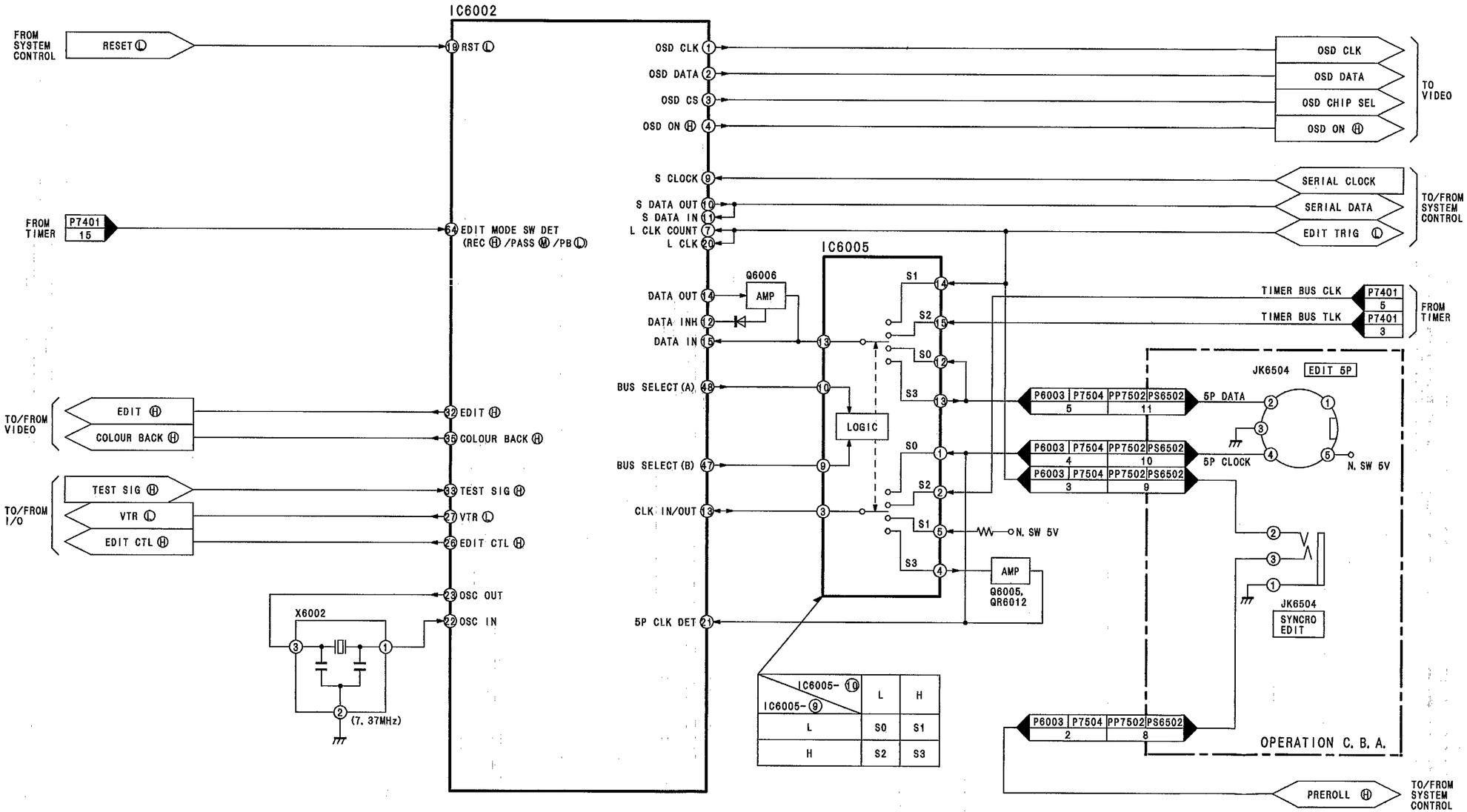
443NT [L]	4.43 NTSC Ⓛ	BIL. [H]	BILINGUAL Ⓗ
A. COMP	AUDIO COMPONENT SIGNAL	BIL/M1 [L]	BILINGUAL Ⓛ
A. COMPO	AUDIO COMPONENT SIGNAL	BS CLOCK	BS CLOCK
A. D.P [L]	AUDIO DUBBING PAUSE Ⓛ	BS DATA	BS DATA
A. D/L [L]	AUDIO DUBBING PAUSE Ⓛ	BS LCH IN	BS L CHANNEL INPUT
A. DEF [S]	AUDIO DEFEAT	BS MIX [H]	BS MIX Ⓗ
A. DEF [S] [L]	AUDIO DEFEAT	BS MON [H]	BS MONITOR Ⓗ
A. DUB P [L]	AUDIO DUBBING PAUSE Ⓛ	BS MONI [H]	BS MONITOR Ⓗ
A. DUB [H]	AUDIO DUBBING Ⓗ	BS RCH IN	BS R CHANNEL INPUT
A. ERASE	AUDIO ERASE	BS VIDEO	BS VIDEO SIGNAL
A. H. SW	AUDIO HEAD SWITCHING PULSE	BS VIDEO/BS1	BS VIDEO SIGNAL
A. HEAD [R]	AUDIO HEAD (REC)	BS [H]	BS Ⓗ
A. HEAD [W]	AUDIO HEAD (PLAY)	BS. LEVEL	BS LEVEL
A. IN [L]	AUDIO INPUT (L)	BS. M [H]	BS MONITOR Ⓗ
A. IN [R]	AUDIO INPUT (R)	BS/VTR [H]	BS/VTR Ⓗ
A. MUT [H]	AUDIO MUTE Ⓗ	BUS CLK	BUS CLOCK
A. MUTE [H]	AUDIO MUTE Ⓗ	BUS LSN	BUS LISTEN
A. OUT [L]	AUDIO OUTPUT (L)	BUS TLK	BUS TALK
A. OUT [R]	AUDIO OUTPUT (R)	BUZZER	BUZZER
A. RF OUT	AUDIO RF SIGNAL OUTPUT	CAP EC	CAPSTAN TORQUE CONTROL
A/VS/S. DATA	AV SW/SERIAL DATA	CAP M GND	CAPSTAN MOTOR GND
AC ONLINE	AC ONLINE	CAP. ET	CAPSTAN TORQUE CONTROL
AC. O/EE. H	AC ONLINE/EE Ⓗ	CAP. FG1	CAPSTAN FG1 PULSE
AFC S C	AFC S CURVE	CAP. FG2	CAPSTAN FG2 PULSE
AFC [S]	AFC S CURVE	CAS. SW	CASSETTE SW
AFC. DEF	AFC DEFEAT	CCN	PLAYBACK CONTROL SIGNAL (−)
ARFC OUT	AUDIO RF SIGNAL OUTPUT	CCP	PLAYBACK CONTROL SIGNAL (+)
ART. V	ARTIFICIAL VERTICAL SYNC SIGNAL	CHM	CONTROL SIGNAL (+)
ART. V. MM	ARTIFICIAL VERTICAL SYNC SIGNAL MONO MULTI	CHP	CONTROL SIGNAL (−)
		CINEM [L]	CINEMA Ⓛ
ART. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL Ⓗ/NORMAL	CINEMA [L]	CINEMA Ⓛ
		CINEMA/MIX	CINEMA/MIX
AT. V/H/N	ARTIFICIAL VERTICAL SYNC SIGNAL	CKL	RATCH LOCK
ATSW/TEST/NOR/SE	TEST/NORMAL/SERVICE	CKS	SHIFT LOCK
AUDIO IN [L]	AUDIO INPUT (L)	CL	CLOCK
AUDIO IN [R]	AUDIO INPUT (R)	CLK	CLOCK
AUDIO OUT [L]	AUDIO OUTPUT (L)	CLK (C.G)	CLOCK
AUDIO OUT [R]	AUDIO OUTPUT (R)	CLOCK. IN	CLOCK INPUT
AUDIO SELECT [H]	AUDIO SELECT Ⓗ	CLP	CLAMP
AUDIO. L	AUDIO (L)	COL/B/W/NOR	COLOUR/BLACK & WHITE/NORMAL
AUDIO. R	AUDIO (R)	COLOR [H]	COLOUR Ⓗ
AV CNT	AV CONTROL	CONV	CONVERTOR
AV CTL	AV CONTROL	CS	CHIP SELECT
AV CTL/S. CLK	AV CONTROL/SERIAL CLOCK	CTL GND	CONTROL GND
AV. C.M.	AV CONTROL MODE	CTL HEAD [+]	CONTROL HEAD (+)
AVCNT/METER. R	AV CONTROL/LEVEL METER (R)	CTL HEAD [−]	CONTROL HEAD (−)
AVSW/METER. L	AV SW/LEVEL METER (L)	CTL [+]	CONTROL HEAD (+)
B MODE. H	B MODE Ⓗ	CTL [−]	CONTROL HEAD (−)
B.G.P	BURST GATE PULSE	CUE BIAS	CUE BIAS
BACKUP 5V	BACK UP 5V	CURRENT LIM	CURRENT LIMMITER
BAND. U.E.	BAND U	CYL ET	CYLINDER TORQUE CONTROL
BANDVL. D	BAND VL	CYL GND	CYLINDER GND
BI/MI [L]	BILINGUAL/MIX Ⓛ	D.F.M. REC [H]	DELAIED FM RECORDING Ⓗ
BIL	BILINGUAL	D. FM REC [L]	DELAIED FM RECORDING Ⓛ
BIL [L]	BILINGUAL Ⓛ	D. GND	DIGITAL GND

D. REC [H]	DELAYED RECORDING Ⓗ	H. SYNC	HORIZONTAL SYNC
D4/S. LED	D4/STILL LED	H. AMP. SW	HEAD AMP SW PULSE
D4/STILLED	D4/STILL LED	H. P <R>	HEAD PHONE (R)
DAC [CLK]	TUNER DAC (CLOCK)	H. P <L>	HEAD PHONE (L)
DAC/FSCS	TUNER DAC/FS CHIP SELECT	H. P GND	HEAD PHONE GND
DAREC [H]	DELAYED AUDIO RECORDING Ⓗ	H. P OUT [L]	HEAD PHONE OUTPUT (L)
DATA	DATA	H. P OUT [R]	HEAD PHONE OUTPUT (R)
DECODER [L]	DECODER (L)	H. SW	HEAD SW PULSE
DECODER [R]	DECODER (R)	HEAD PHONE [L]	HEAD PHONE (L)
DEW	DEW	HEAD PHONE [R]	HEAD PHONE (R)
DEW SNS	DEW SENSOR	HEAD SW	HEAD SW
DFMRE [H]	DELAYED FM AUDIO RECORDING Ⓗ	HEATER [+]	HEATER (+)
E. REC 5V	EXCEPT RECORDING 5V	HEATER [−]	HEATER (−)
EC	ERR0R TORQUE CONTROL	HSS	HORIZONTAL SYNC SIGNAL
ECR	ERROR TORQUE CONTROL REFERENCE VOLTAGE	HTR [+]	HEATER (+)
		HTR [−]	HEATER (−)
EDT TRIG [L]	EDIT TRIGGER Ⓛ	I RFE	REFERENCE CURRENT
EDIT [H]	EDIT Ⓗ	ICL	CONTROL AGC CIRCUIT
EE [H]	EE Ⓗ	IF	INTERMEDIATE FREQUENCY
EE [H]/INS [M]	EE Ⓗ/INSERT Ⓜ	IN SELA1	INPUT SELECT A1 POSITION
EE. VV. TR	EE/VV/TRICK PLAY	IN SELA2	INPUT SELECT A2 POSITION
EJECT. PO	EJECT POSITION	IN SELA3	INPUT SELECT A3 POSITION
EJECT/VDET	EJECT/REVERSE SLOW LOCK	INS L/R [L]	INSERT Lch/Rch Ⓛ
ENV. SEL	ENVELOPE SELECT	INS. [H]	INSERT Ⓗ
ENVE. OUT	ENVELOPE OUTPUT	INSEL A1	INPUT SELECT A1 POSITION
ENVE. SEL	ENVELOPE SELECT	INSEL A2	INPUT SELECT A2 POSITION
ENV SELECT	ENVELOPE SELECT	INSERT	INSERT
EP [H]	LP Ⓗ	INSERT [H]	INSERT Ⓗ
EP/LP [H]	LP Ⓗ	IO CS	INPUT/OUTPUT CHIP SELECT
EP/LP/SP	LP/SP	JOG1	JOG1
EP/SS [H]	LP/SLOW/STILL/STOP Ⓗ	JOG S3 LED/FOWRD	JOG LED/FORWARD LED
EPROMCS	EPROM CHIP SELECT	JOG/F. LED	JOG LED/FORWARD LED
EX. REC 5V	EXCEPT RECORDING 5V	JSB [H]	JSB Ⓗ
FF/REW [L]	FIRST FORWARD/REWIND Ⓛ	JST. CLCK	JUST CLOCK
FG1 IN	FG1 PULSE INPUT	JST. CLK	JUST CLOCK
FG2 IN	FG2 PULSE INPUT	JST. CLOCK	JUST CLOCK
FILTER ADJUSTMEN	FILTER ADJUSTMENT	L. OUT	Lch OUTPUT
FLY ERASE [H]	FLYING ERASE HEAD ON Ⓗ	L. CH [H]	Lch Ⓗ
FLY ON [H]	FLYING ERASE E HEAD ON Ⓗ	L. CH [L]	Lch Ⓛ
FLY. E [H]	FLYING ERASE HEAD ON Ⓗ	LED (MAIN)	LED (MAIN)
FM MUT [H]	FM AUDIO MUTE Ⓗ	LED (STEREO)	LED (STEREO)
FM MUTE [H]	FM AUDIO MUTE Ⓗ	LED (SUB)	LED (SUB)
FM OUT [L]	FM OUTPUT (L)	LED CKL	LED SERIAL CLOCK
FM OUT [R]	FM OUTPUT (R)	LED CKS	LED SERIAL CLOCK
FM PACK OUT [L]	FM PACK OUTPUT (L)	LED DATA	LED SERIAL DATA
FM PACK OUT [R]	FM PACK OUTPUT (R)	LINE IN 1 [L]	LINE INPUT 1 (L)
FM/BS SEL [L]	FM/BS SELECT (L)	LINE IN 1 [R]	LINE INPUT 1 (R)
FM/BS SEL [R]	FM/BS SELECT (R)	LINE IN 2 [L]	LINE INPUT 2 (L)
FS. CLK	FS CLOCK	LINE IN 2 [R]	LINE INPUT 2 (R)
FUL. E [H]	FULL ERASE HEAD ON Ⓗ	LINE IN V	LINE INPUT VIDEO
FULL. E [H]	FULL ERASE HEAD ON Ⓗ	LINE IN [L]	LINE INPUT (L)
FULL. E. 12V	FULL ERASE 12V	LINE IN [R]	LINE INPUT (R)
GND [A]	GND (ANALOGUE)	LINE OUT [L]	LINE OUTPUT (L)
GND [TU]	GND (TUNER)	LINE OUT [R]	LINE OUTPUT (R)
GND/N. SW. 12V	GND/NON SW 12V	LP [H]	LP Ⓗ

LPTRI [L]	LP TRICK PLAY Ⓛ	P. OFF [L]	POWER OFF Ⓛ
Lch/A. DUB	Lch/AUDIO DUBBING	PAL [H]	PAL Ⓗ
M GND	MOTOR GND	PAL [L]/NTSC [H]	PAL Ⓛ/NTSC Ⓗ
M REG	MOTOR REGULATOR	PB ADJ OUT	PLAYBACK ADJUST OUTPUT
MAIN OUT	MAIN OUTPUT	PB OUT	PLAYBACK OUTPUT
MAIN [L]	MAIN Ⓛ	PB. H	PLAYBACK Ⓗ
MAIN/MONO	MAIN/MONAURAL	PFG	PG/FG
MAX IN	MAXIMAM INPUT	PHOTSN +B	PHOTO SENSOR +B
MES [H]	MESECAM Ⓗ	PICT. CNT	PICTURE CONTROL
MESE [H]	MESECAM Ⓗ	PLAY LED/RVS LED	PLAY LED/REVERSE LED
MESE [L]	MESECAM Ⓛ	PLAY. PO	PLAY POSITION
METER 5V	LEVEL METER 5V	PLAY/R. LED	PLAY LED/REVERSE LED
METER [L]	LEVEL METER (L)	PLY/DEW	PLAY/DEW Ⓗ
METER [R]	LEVEL METER (R)	POWER OFF [L]	POWER OFF Ⓛ
METER. L/AVS	LEVEL METER (L)	PREROLL [H]	PREROLL Ⓗ
METER. R/AVC	LEVEL METER (R)	PWRFAIL	POWER FAILURE DETECT
MI/BI [L]	MIX Ⓗ/BILIGUAL	R. CH [H]	Rch Ⓗ
MIC GND	MIC GND	R. CH [L]	Rch Ⓛ
MIC IN	MIC INPUT	R. ST	RESET
MIC IN [L]	MIC INPUT (L)	R/S/F	REVERSE Ⓗ/STOP Ⓜ/FORWARD Ⓛ
MIC IN [R]	MIC INPUT (R)	RCH [H]	Rch Ⓗ
MIC [H]	MIC Ⓗ	REC 12V	RECORDING 12V
MIX [H]	MIX Ⓗ	REC CHROMA	RECORDING CHROMINANCE SIGNAL
MIX [H]/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ	REC H	RECORDING Ⓗ
MIX/CINE	MIX Ⓗ/CINEMA SOUND Ⓛ	REC IN	RECORDING INPUT
MIX/CINEMA [L]	MIX Ⓗ/CINEMA SOUND Ⓛ	REC OUT [L]	RECORDING OUTPUT Ⓛ
MN. H/M. L	MONAURAL Ⓗ/MAIN Ⓛ	REC START	RECORDING START
MN. H/MAI. L	MONAURAL Ⓗ/MAIN Ⓛ	REC VR [C]	RECORDING VOLUME (COMMON)
MN2/MES. L	MONAURAL 2/MESECAM Ⓛ	REC VR [L]	RECORDING VOLUME (L)
MODE SEL	AUDIO MODE SELECT	REC VR [R]	RECORDING VOLUME (R)
MODE SW	AUDIO MODE SW	REC Y	RECORDING LUMINANCE SIGNAL
MODE. S. IN	AUDIO MODE SELECT INPUT	REC [H]	RECORDING Ⓗ
MODE. S. OUT	AUDIO MODE SELECT OUTPUT	REC. C	RECORDING CHROMINANCE SIGNAL
MONO [H]	MONAURAL Ⓗ	REC. Y	RECORDING LUMINANCE SIGNAL
MONO [H]/MAIN [L]	MONAURAL Ⓗ/MAIN Ⓛ	REC/EE CTL	RECORDING/EE CONTROL
MONO2 [L]	MONAURAL 2	REEL-T	REEL PULSE (TAKE-UP)
MONO2/MESE [FM(L)]	MONAURAL 2/MESECAM (FM Ⓛ)	REEL-S	REEL PULSE (SUPPLY)
MOTOR GND	MOTOR GND	REGULATOR FILTER	REGULATOR FILTER
MUTE	MUTE	RESET	RESET
N. A. REC [L]	NORMAL AUDIO RECORDING	REV M F/R	REVIEW MOTOR FORWARD/REVERSE
N. SW 12V	NON SW 12V		
N. SW. 5. DET	NON SW 5V DETECT	REV M V1	REVIEW MOTOR V1
NICAM	NICAM	REV M V2	REVIEW MOTOR V2
NICAM [L]	NICAM Ⓛ	REV MOTOR F/R	REVIEW MOTOR FORWARD/REVERSE
NOL [H]	PAL Ⓗ/4.43 NTSC Ⓜ/3.58 NTSC Ⓛ		
NOR/SOFT [H]	NORMAL/SOFT TAPE PLAY Ⓗ	REV MOTOR V1	REVIEW MORROR V1
NORMAL [H]	NORMAL Ⓗ	REV MOTOR V2	REVIEW MOTOR V2
NR BIAS	NR BIAS	REV MOTOR [+]	REVIEW MOTOR (+)
NTSC [L]	NTSC Ⓛ	REV MOTOR [−]	REVIEW MOTOR (−)
OCH	CONTROL AGC CIRCUIT	REV. M. GND	REVIEW MOTOR GND
OUT	OUTPUT	RF. CHROMA	RF CHROMINANCE SIGNAL
P-OFF [H]	POWER OFF Ⓗ	RF OUT	RF OUTPUT
P-OFF [L]	POWER OFF Ⓛ	RF Y	RF LUMINANCE SIGNAL
P. FAIL	POWER FAILURE DETECT	RF. Y. IN	RF LUMINANCE SIGNAL INPUT
P. OFF [H]	POWER OFF Ⓗ	RF. Y. OUT	RF LUMINANCE SIGNAL OUTPUT

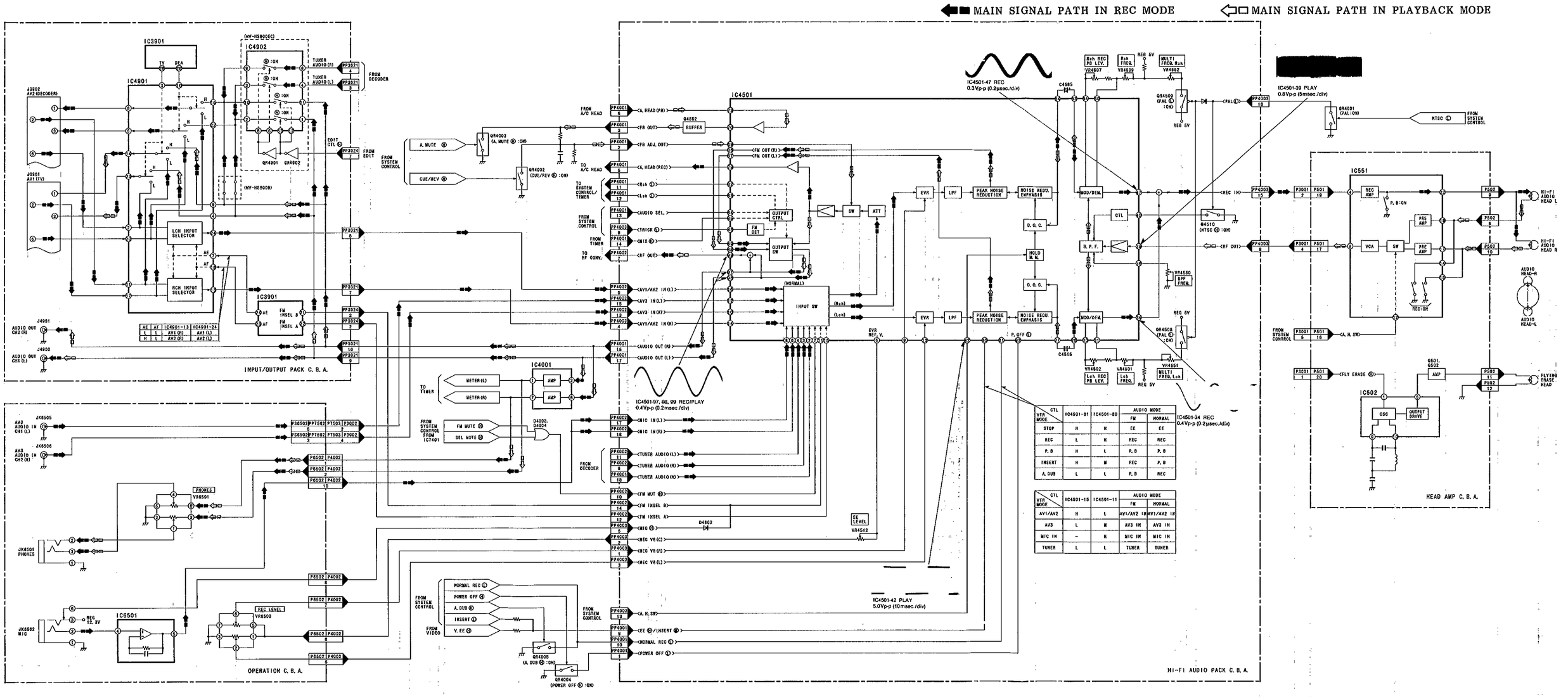
ROTAR. SW	ROTARY SW
ROTARY	ROTARY SW
RST	RESET
RST [L]	RESET Ⓛ
Rch/INST	Rch/INSERT
S IN	SERIAL DATA INPUT
S OUT	SERIAL DATA OUTPUT
S-PHOTO	SUPPLY PHOTO TRANSISTOR
S-RL. PLS	SUPPLY REEL PULSE
S. CLK	SERIAL CLOCK
S. CLK/AV	SERIAL CLOCK/AV
S. DATA	SERIAL DATA
S. DATA/A	SERIAL DATA
S. PHOTO	SUPPLY PHOTO TRANSISTOR
S. TAB [L]	SAFETY TAB SW ON Ⓛ
S/P/N	SECAM/PAL/NTSC
SC IN	SERIAL CLOCK INPUT
SC OUT	SERIAL CLOCK OUTPUT
SCK SELECT	SERIAL CLOCK SELECT
SEL OUT [L]	SELECT OUTPUT (L)
SEL OUT [R]	SELECT OUTPUT (R)
SHUTTLE 1	SHUTTLE 1
SIF	SOUND INTERMEDIATE FREQUENCY
SLMUT [H]	INPUT SELECT MUTE Ⓗ
SLNID [+]	SOLENOID (+)
SLNID [−]	SOLENOID (−)
SLW TR. MM	SLOW TRACKING MONO MULTI
SLW TR. REF	SLOW TRACKING REFERENCE VOLTAGE
SNS. GND	SENSOR GND
SOFT [H]	SOFT TAPE PLAY Ⓗ
SOFT [H]/NORMAL	SOFT TAPE PLAY Ⓗ/NORMAL Ⓗ
SOLENOID ON [L]	SOLENOID ON Ⓛ
SP [H]	SP Ⓗ
SP/L/SLP	SP/LP
SSS [L]	SLOW/STILL/STOP
STEREO LED	STEREO LED
STEREO [H]	STEREO Ⓗ
STEREO [L]	STEREO Ⓛ
STOP. PO	STOP POSITION
STOP/5V	STOP POSITION/5V
STOP1/TAPE SEL	STOP1 POSITION/TAPE SELECT
STOP1/PAL:ST	STOP1 POSITION/PAL
STOP2. PO	STOP 2 POSITION
STOP2/S-TAB	STOP 2 POSITION/SAFETY TAB SW
STREO [H]	STEREO Ⓗ
SUB BIAS	SUB BIAS
SUB. SW	SUB SW
SVHS CAS [L]	S-VHS CASSETTE Ⓛ
SW. 5. DET	SW 5V DETECT
SYNC [L]	SYNC Ⓛ
SYSCON 5V	SYSTEM CONTROL 5V
SYSTEM	SYSTEM SW
T-PHOTO	TAKE-UP PHOTO TRANSISTOR
T-RL. PLS	TAKE-UP REEL PULSE
T. BUSCLK	TIMER BUS CLOCK
T. BUSLSN	TIMER BUS LISTEN
T. BUSTLK	TIMER BUS TALK
T. END [L]	TAPE END Ⓛ
T. PHOTO	TAKE-UP PHOTO TRANSISTOR
TAPE END [L]	TAPE END Ⓛ
TAPE END [L]/CAM	TAPE END Ⓛ/CAMERA PAUSE
TEST	TEST MODE
TPZ	TRAPEZOIDAL WAVE CIRCUIT
TRIC [L]	TRIC PLAY Ⓛ
TRICK [L]	TRIC PLAY Ⓛ
TRK. ENV	AUTO TRACKING ENVELOPE DETECT
TU. AUDIO	TUNER AUDIO
TU. GND	TUNER GND
TU. V. IN	TUNER VIDEO SIGNAL INPUT
TU. VIDEO	TUNER VIDEO
TUN NOR IN	TUNER NORMAL INPUT
TUN R	TUNER AUDIO (R)
TUN. AUDIO IN	TUNER AUDIO INPUT
TUNER 12V	TUNER 12V
TUNER L	TUNER AUDIO (L)
TUNER V IN	TUNER VIDEO SIGNAL INPUT
TUNER [L]	TUNER AUDIO (L)
TUNER [N]	TUNER AUDIO (NORMAL)
TUNER [R]	TUNER AUDIO (R)
TUNER. 12	TUNER 12V
TUOFF [H]	TUNER OFF Ⓗ
TV. AUDIO	TV AUDIO
TV/VTR	TV/VTR
TXTON [L]	TEXT ON Ⓛ
U. REG45V	UNREGULATOR 45V
UNREG	UNREGULATOR
UNREG19V	UNREGULATOR 19V
V. REF	REFERENCE VOLTAGE
V. EE [H]	VIDEO EE Ⓗ
V. EE [L]	VIDEO EE Ⓛ
VCO REF	RERERENCE OSCILLATER
VD. IN	VIDEO SIGNAL INPUT
VD. OUT	VIDEO SIGNAL OUTPUT
VIDEO EE [L]	VIDEO EE Ⓛ
VIDEO IN	VIDEO SIGNAL INPUT
VIDEO OUT	VIDEO SIGNAL OUTPUT
VM	MOTOR VOLTAGE
VM DOWN [L]	MOTOR VOLTAGE DOWN Ⓛ
VSS	VERTICAL SYNC SIGNAL
VTR [H]	VTR Ⓗ
VTR. 12V	VTR 12V
X IN	OSCILLATOR INPUT
X OUT	OSCILLATOR OUTPUT

3-2. EDIT BLOCK DIAGRAM

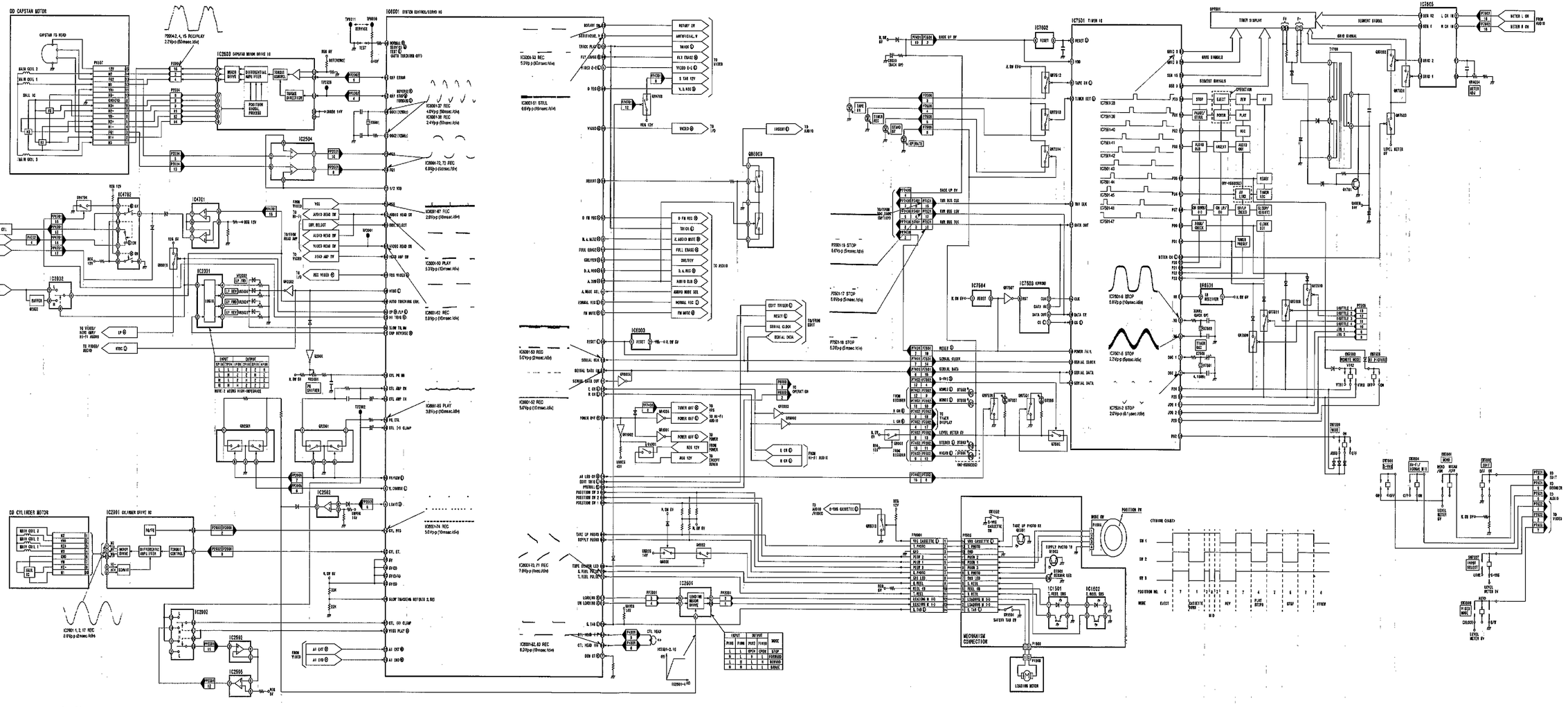


SYMBOL	TRUTH VALUE TABLE
INVERTER	IN (a) H L / OUT (b) L H
COMPARTOR	IN (a)/(b) (a)>(b) (a)<(b) / OUT (c) H L
AND CIRCUIT	IN (a) L L H H / (b) L H L H / OUT (c) L L L H
OR CIRCUIT	IN (a) L L H H / (b) L H L H / OUT (c) L H H H
THREE STATES BUFFER	IN (a) H L H or L / (b) L L H / OUT (c) H L ※ ; ※ High Impedance
TR. SW (NPN TYPE)	BASE H L / TR. SW ON OFF
TR. SW (PNP TYPE)	BASE H L / TR. SW OFF ON
R-S TYPE FLIP-FLOP	IN (a) L L ⎍ / (b) L ⎍ L / OUT (c) ※ L H / (d) ◆ H L ; ※ Initial condition is maintained. ◆ Initial condition is reversed.

3-3. Hi-Fi AUDIO BLOCK DIAGRAM


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
INPUT/OUTPUT PACK C. B. A.
OPERATION C. B. A.
HI-FI AUDIO PACK C. B. A.
HEAD AMP C. B. A.
IC4501-47 REC 0.5Vp-p (0.2μsec./div)
IC4501-39 PLAY 0.8Vp-p (5msec./div)
IC4501-97, 98, 99 REC/PLAY 0.4Vp-p (0.2msec./div)
IC4501-34 REC 0.4Vp-p (0.2μsec./div)
IC4501-42 PLAY 5.0Vp-p (10msec./div)
[redacted]

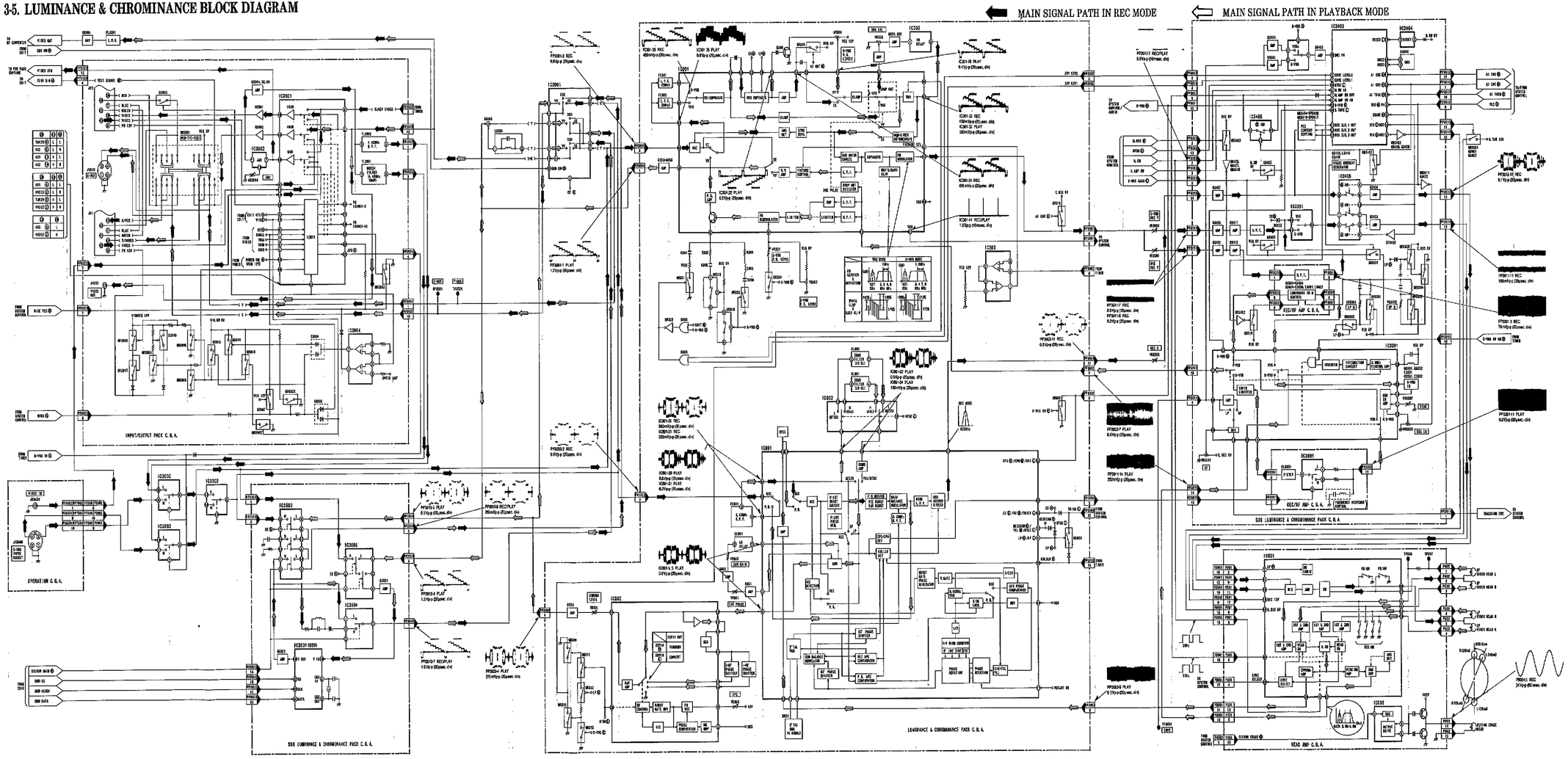
3-4. SYSTEM CONTROL & SERVO BLOCK DIAGRAM



3-5. LUMINANCE & CHROMINANCE BLOCK DIAGRAM

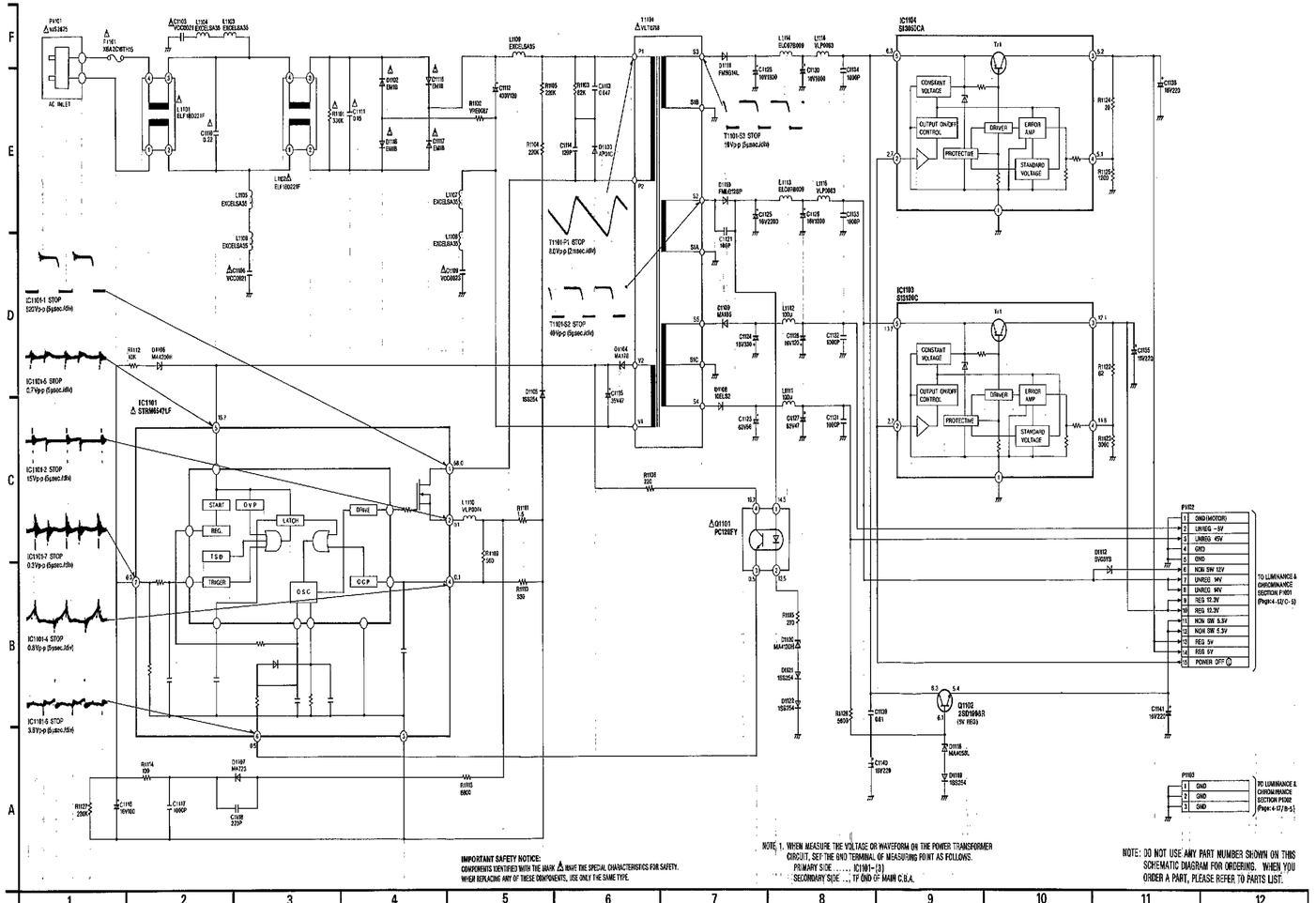
MAIN SIGNAL PATH IN REC MODE

MAIN SIGNAL PATH IN PLAYBACK MODE


INPUT/OUTPUT PACK C.B.A.
OPERATION C.B.A.
SUB LUMINANCE & CHROMINANCE PACK C.B.A.
LUMINANCE & CHROMINANCE PACK C.B.A.
SUB LUMINANCE & CHROMINANCE PACK C.B.A.
REC/AF AMP C.B.A.
HEAD AMP C.B.A.

SECTION 4
SCHEMATIC DIAGRAMS

4-1. POWER SCHEMATIC DIAGRAM

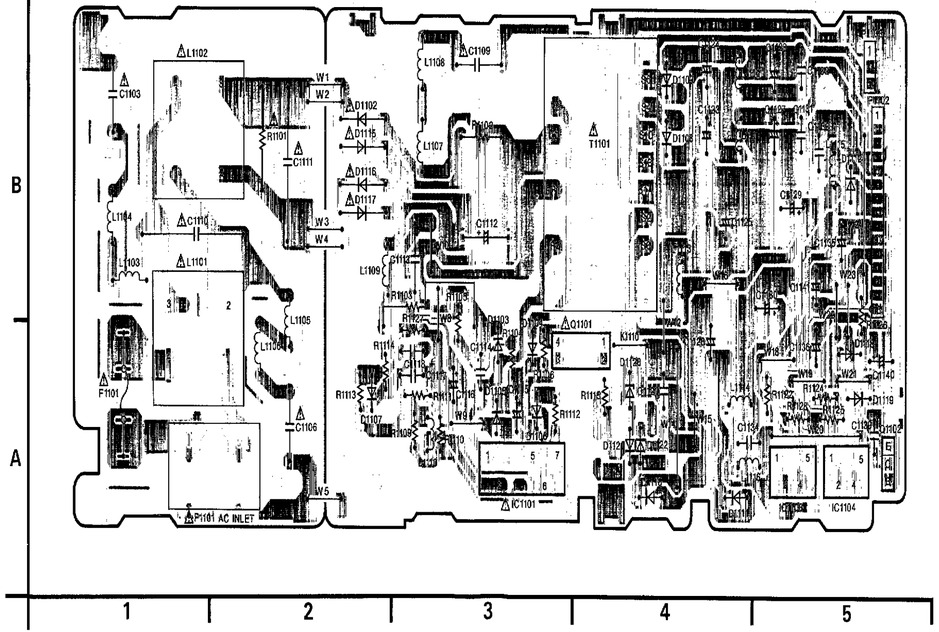

IC1101 STR6654F/LF
IC1104 S3803CA
IC1103 S1320C
Q1101 PC123FY
Q1102 2SD1946R
P1101
P1102
P1103
IC1101-1 STOP 522Vp-p (5μsec./div)
IC1101-6 STOP 0.7Vp-p (5μsec./div)
IC1101-2 STOP 15Vp-p (5μsec./div)
IC1101-7 STOP 0.3Vp-p (5μsec./div)
IC1101-4 STOP 0.6Vp-p (5μsec./div)
IC1101-5 STOP 3.8Vp-p (5μsec./div)
T1101-S3 STOP 18Vp-p (5μsec./div)
T1101-P1 STOP 82Vp-p (2.5μsec./div)
T1101-S2 STOP 40Vp-p (5μsec./div)
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK △ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.
NOTE 1. WHEN MEASURE THE VOLTAGE OR WAVEFORM ON THE POWER TRANSFORMER CIRCUIT, SET THE GND TERMINAL OF MEASURING POINT AS FOLLOWS:
PRIMARY SIDE ..... IC1101-(3)
SECONDARY SIDE ..., TF GND OF MAIN C.B.A.
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-1 4-2 4-3

4-2. POWER C.B.A. (VEP01558C)

POWER C.B.A.	
Transistor	
Q1101	A-4
Q1102	A-5
Integrated Circuit	
IC1101	A-3
IC1103	A-5
IC1104	A-5
Connector	
P1101	A-1
P1102	B-5
P1103	B-5

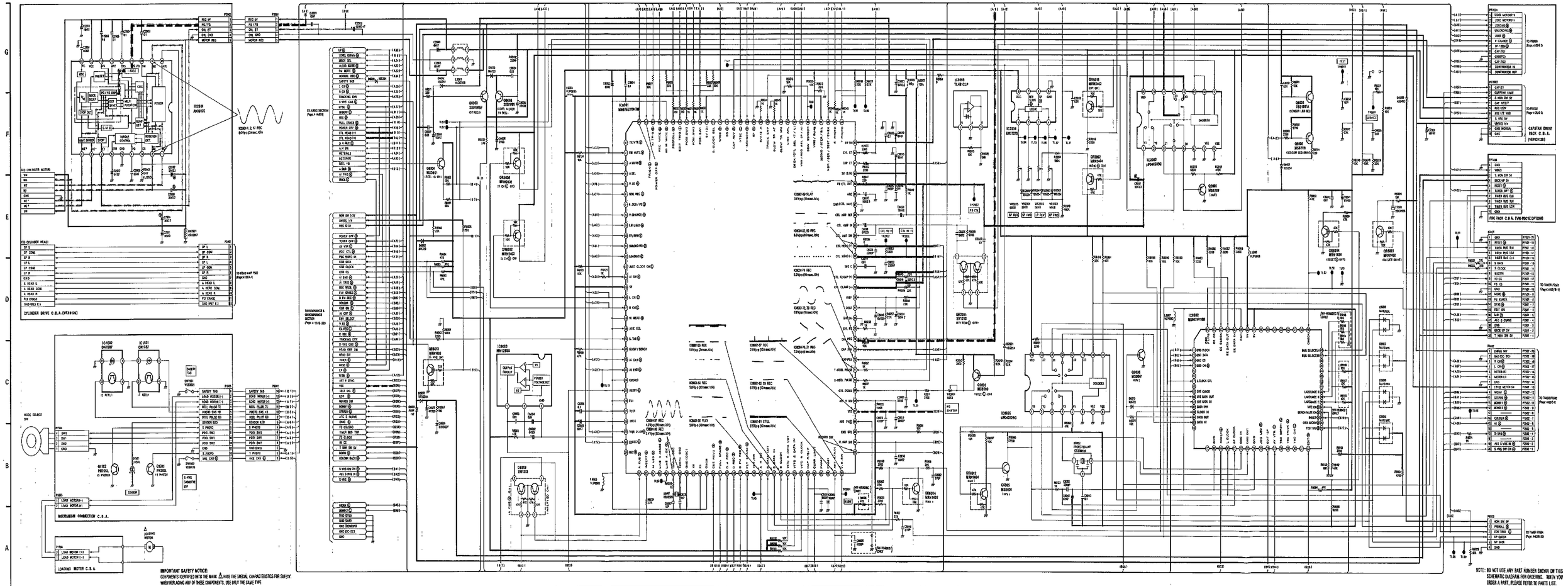
ADDRESS INFORMATION



4-4 4-5

4-3. SYSTEM CONTROL & SERVO SECTION IN MAIN SCHEMATIC DIAGRAM

CAPSTAN SERVO SPEED LOOP — CAPSTAN SERVO PHASE LOOP — CYLINDER SERVO SPEED LOOP — CYLINDER SERVO PHASE LOOP


CYLINDER DRIVE C.B.A. (VEV491G)
CAPSTAN DRIVE PACK C.B.A. (VEPV2413B)
PDC PACK C.B.A. (VEPV2414B)
MECHANISM CONNECTION C.B.A.
LOADING MOTOR C.B.A.
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK △ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

SYSTEM CONTROL & SERVO ICs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	IC2001																			
MODE	1	2	3	4	5	6	7	8												
STOP	0	5.0	0	0	0	5.0	0	5.0												
PLAY	0	5.0	0	0	0	5.0	0	5.0												
REC	0	4.9	0	0	0	5.0	0	5.0												
F.F	0	5.0	0	0	0	5.0	0	5.0												
REW	5.0	0	0	0	0	5.0	5.0	5.0												

REF. NO.	IC2002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	2.5	2.3	1.4	1.4	1.0	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2				
PLAY	2.6	2.3	2.6	2.6	2.0	0	0	0	5.0	0	0	2.5	0	2.5	2.3	5.2				
REC	2.5	2.3	1.1	1.1	0.6	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2				
F.F	2.5	2.3	1.6	1.6	1.0	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2				
REW	2.5	2.3	1.2	1.2	0.6	0	0	0	5.0	0	0	2.6	0	2.6	2.3	5.2				

REF. NO.	IC2901																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		
STOP	14.8	14.6	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.7	5.2	3.8	3.9	3.8	1.2	14.4	14.6	0.1		
PLAY	14.5	13.9	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.9	3.8	1.5	14.3	14.4	0.1		
REC	14.8	14.7	0.1	1.2	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.9	3.9	1.4	14.3	14.4	0.1		
F.F	14.1	13.8	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.9	3.8	3.8	1.5	14.3	13.7	0.1		
REW	14.5	13.5	0.1	1.1	0.1	2.6	2.5	2.6	2.5	2.8	5.2	3.8	3.8	3.9	1.5	14.3	14.5	0.1		

REF. NO.	IC8001																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	0	0.1	0	5.0	0.1	5.0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
PLAY	0	0.1	0	5.0	5.0	5.0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
REC	0	0.1	0	5.0	0.1	0	5.0	4.9	0.1	4.9	0	0	5.0	4.9	5.0	0	0	0	0	0
F.F	0	0.1	0	5.0	0.1	5.0	5.0	0	0.1	0	0	0	5.0	4.9	5.0	0	0	0	0	0
REW	0	0.1	0	5.0	0.1	5.0	5.0	0	0.1	0	0	0	5.0	4.9	5.0	0	0	0	0	0

REF. NO.	IC6001																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
PLAY	5.0	0.1	0.2	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
REC	5.0	0.1	5.0	0	5.0	0	0	0	0	4.9	5.0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
F.F	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0
REW	5.0	0.1	5.0	0	5.0	0	0	0	0	0	0	0	0	5.0	5.0	0	2.7	2.7	0	5.0

REF. NO.	IC6001																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0.1	0	0	5.0	0	1.8	0.9	4.5	4.8	5.0	4.8	2.0	0	2.6	2.5
PLAY	0	0	0	0	0	0.1	0	0	5.0	3.7	1.7	0.9	4.5	4.8	5.0	4.8	0	5.0	2.7	2.5
REC	0	0	0	5.0	5.0	5.0	5.0	0	5.0	0	1.7	0.9	4.5	4.8	5.0	4.8	0	5.0	2.6	2.5
F.F	0	0	0	0	0	0.1	0	0	5.0	0	1.7	0.8	4.5	4.8	5.0	4.8	0	5.0	5.0	2.5
REW	0	0	0	0	0	0.1	0	0	5.0	0	1.7	0.9	4.5	4.8	5.0	4.8	5.0	5.0	5.0	2.5

REF. NO.	IC8001																			
MODE	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
STOP	0	5.0	5.0	0	4.0	5.0	2.5	0.3	3.5	5.0	0	2.5	2.5	1.5	0	0	2.5	2.5	2.4	2.6
PLAY	0	3.7	5.0	0	4.0	5.0	2.5	0.3	3.7	5.0	5.0	2.5	2.5	1.5	0	0	2.5	2.5	3.0	2.5
REC	0	5.0	5.0	0	4.5	5.0	2.5	0.3	3.8	5.0	5.0	2.5	2.5	1.5	0	0	2.5	2.5	2.4	2.6
F.F	0	5.0	5.0	0	2.4	5.0	2.5	0.3	3.7	2.5	2.9	2.5	2.5	1.2	0	0	2.5	2.5	2.5	2.6
REW	0	4.0	3.6	0	2.5	5.0	2.5	0.3	3.7	2.7	2.5	2.5	2.5	1.3	0	0	2.5	2.5	2.5	2.6

REF. NO.	IC6001																			
MODE	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
STOP	4.9	0	0	0	2.5	2.5	0	2.7	2.5	5.0	1.4	2.5	5.0	3.5	5.0	5.0	5.0	3.5	0	3.5
PLAY	5.0	0	0	0	2.5	2.5	0	3.0	2.5	5.0	2.5	2.5	5.0	4.1	5.0	5.0	5.0	3.5	0	3.5
REC	4.9	3.7	3.9	0	2.5	2.5	0	2.7	2.5	5.0	2.7	2.5	5.0	4.1	4.8	5.0	5.0	3.5	0	3.5
F.F	5.0	0	0	0	2.5	2.5	0	3.1	2.5	5.0	2.3	2.5	5.0	4.4	4.9	5.0	5.0	3.5	0	3.5
REW	5.0	0	0	0	2.5	2.5	0	3.1	2.5	5.0	2.4	2.5	5.0	4.4	4.9	5.0	5.0	3.5	0	3.5

REF. NO.	IC6001																			
MODE	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
STOP	3.5	5.0	2.3	0	1.8	0	5.0	5.0	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
PLAY	3.5	5.0	2.6	0	2.7	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
REC	3.5	5.0	2.6	0	1.2	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	0	5.0	5.0	0	0
F.F	3.5	5.0	2.6	0	1.2	0	5.0	0.2	5.0	0	5.0	0	4.5	5.0	0	5.0	5.0	5.0	0	0
REW	3.5	5.0	2.3	0	1.2	0	5.0	0.2	5.0	5.0	5.0	0	4.5	5.0	0	5.0	5.0	5.0	0	0

REF. NO.	IC6001																			
MODE	121	122	123	124																
STOP	0	0	0	5.0																
PLAY	0	0	0	5.0																
REC	0	0	0	5.0																
F.F	0	0	0	5.0																
REW	0	0	0	5.0																

REF. NO.	IC6002																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	4.8	4.7	4.6	0	0	0	5.0	0	4.5	0.9	0.9	0	4.8	3.1	4.7	0	0	0	4.9	5.0
PLAY	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REC	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
F.F	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0
REW	4.8	4.7	4.6	0	0	0	5.0	0	4.5	1.0	1.0	0	4.8	3.1	4.7	0	0	0	4.9	5.0

REF. NO.	IC6002																			
MODE	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
STOP	5.0	2.2	2.4	0	0	0	5.0	0	0	0	0	0	0	0.2	0	0	4.5	0	0	0
PLAY	5.0	2.2	2.4	0	0	0	0	0	0	0	0	0	0	0.2	0	0	4.5	0	0	0
REC	5.0	2.2	2.4	0	0	0	0	0	0	0	0	0	0	0.2	0	0	4.5	0	0	0
F.F	5.0	2.2	2.4	0	0	0	0	0	0	0	0	0	0	0.2	0	0	4.5	0	0	0
REW	5.0	2.2	2.4	0	0	0	0	0	0	0	0	0	0	0.2	0	0	4.5	0	0	0

REF. NO.	IC6002																			
MODE	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
STOP	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
PLAY	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REC	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
F.F	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0
REW	0	0	0	0	0	0	5.0	0	5.0	0	0	0	0	0	0	0	5.0	5.0	0	5.0

REF. NO.	IC6002																			
MODE	61	62	63	64																
STOP	0.1	5.0	5.0	5.0																
PLAY	0.1	5.0	5.0	5.0																
REC	0.1	5.0	5.0	5.0																
F.F	0.1	5.0	5.0	5.0																
REW	0.1	5.0	5.0	5.0																

REF. NO.	IC6003																			
MODE	1	2	3																	
STOP	5.0	5.0	0																	
PLAY	5.0	5.0	0																	
REC	5.0	5.0	0																	
F.F	5.0	5.0	0																	
REW	5.0	5.0	0																	

REF. NO.	IC6005																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16				
STOP	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.6	5.0	4.6	5.0				
PLAY	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0				
REC	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.6	5.0				
F.F	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0				
REW	5.0	4.8	4.8	4.3	5.0	0	0	0	5.0	0	5.0	5.0	4.7	5.0	4.7	5.0				

REF. NO.	IC6008																			
MODE	1	2	3																	
STOP	2.3	0	2.9																	
PLAY	2.3	0	2.9																	
REC	2.3	0	2.9																	
F.F	2.3	0	2.9																	
REW	2.3	0	2.9																	

SYSTEM CONTROL & SERVO TRANSISTORs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	Q2001			Q2002			Q6001			Q6002			Q6003			Q6004		
MODE	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
STOP	5.0	4.8	5.0	1.6	0	1.0	5.1	14.4	5.6	5.1	−0.2	5.0	5.2	5.4	5.9	5.0	5.0	5.7
PLAY	5.0	4.8	5.0	2.6	0	2.0	5.0	14.4	5.6	5.0	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.7
REC	5.0	4.8	4.9	1.1	0	0.5	4.9	14.3	5.6	4.9	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.6
F.F	5.0	4.8	5.0	1.1	0	1.1	5.0	14.3	5.6	5.0	4.9	4.2	5.2	5.4	5.9	5.0	5.0	5.7
REW	5.0	4.8	5.0	1.1	0	0.5	5.0	14.3	5.6	5.0	4.8	4.2	5.2	5.4	5.9	5.0	5.0	5.7

REF. NO.	Q8005			Q8006			Q8008		
MODE	E	C	B	E	C	B	E	C	B
STOP	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8
PLAY	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8
REC	0	4.9	0.1	0	4.7	0.1	5.0	5.1	5.8
F.F	0	4.8	0.1	0	4.7	0.1	5.0	5.1	5.8
REW	0	4.8	0.1	0	4.7	0.1	5.0	5.1	5.8

REF. NO.	QR2001					QR2002			QR8001			QR8002			QR8003		
MODE	1	2	3	4	5	E	C	B	E	C	B	E	C	B	E	C	B
STOP	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	0	5.0	5.0	0
PLAY	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	0	5.0	5.0	0
REC	0	0	4.9	0	4.9		5.0	0	5.0	0	0	5.0	5.0	0	5.0	5.0	0
F.F	0	1.0	0	0	0		5.0	0	5.0	0	0	5.0	5.0	0	5.0	5.0	0
REW	0	1.0	0	0	0		5.0	0	5.0	0	0	5.0	5.0	0	5.0	5.0	0

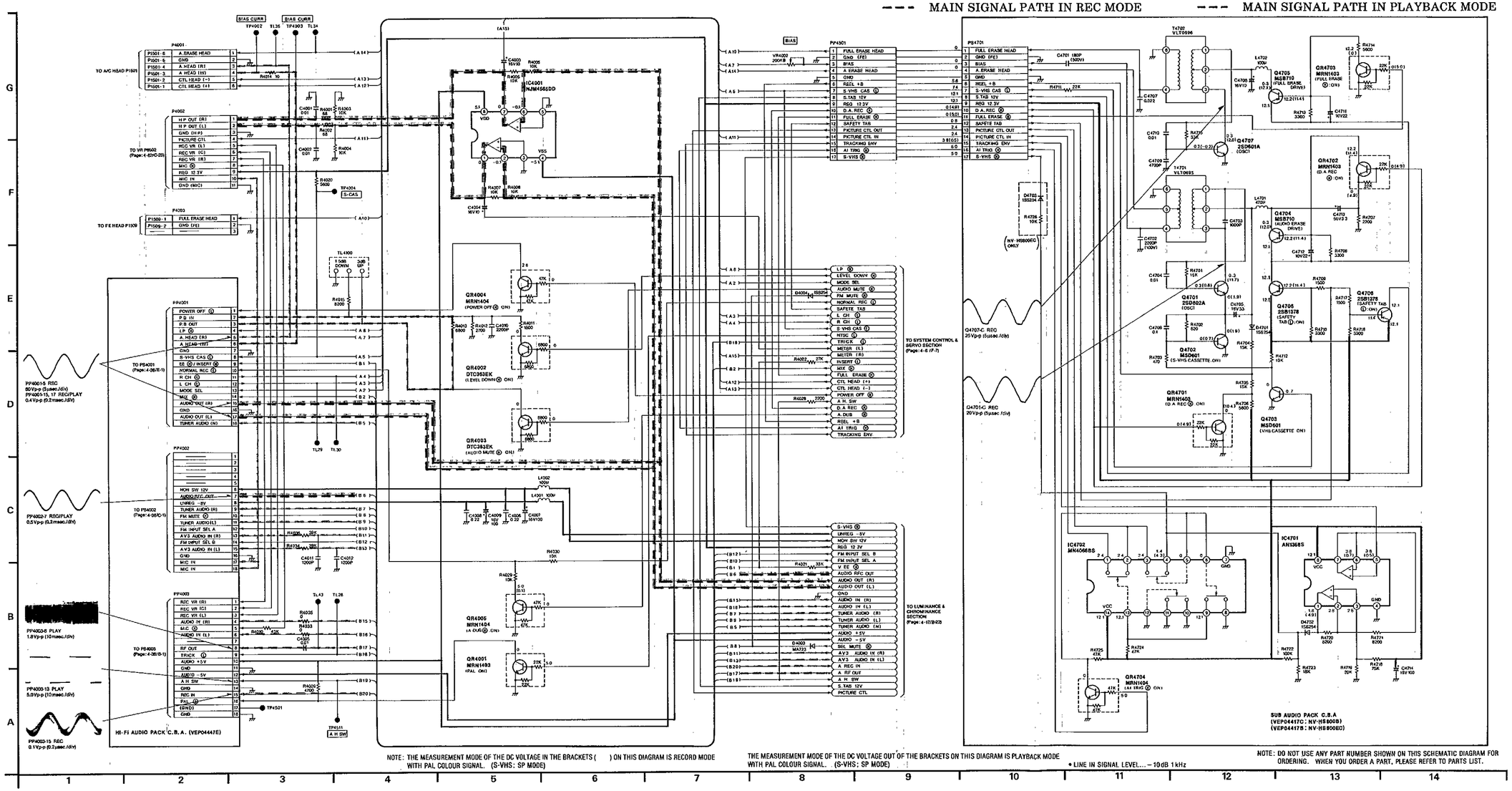
REF. NO.	QR8004			QR6009					QR6012			QR8013			QR8014		
MODE	E	C	B	1	2	3	4	5	E	C	B	E	C	B	E	C	B
STOP	0	0.9	1.7	5.1	0	0	0	0	0	0.1	4.3	0	0	7.0	0	0	4.9
PLAY	0	0.9	1.7	0.5	0	0	0	0	0	0.1	4.3	0	0	7.0	0	0	4.9
REC	0	1.0	1.7	5.1	0	0	0	0	0	0.1	4.3	0	0	7.0	0	0	4.9
F.F	0	1.0	1.7	5.1	0	0	0	0	0	0.1	4.3	0	0	7.0	0	0	4.9
REW	0	0.9	1.7	5.1	0	0	0	0	0	0.1	4.3	0	0	7.0	0	0	4.9

REF. NO.	QR8015		
MODE	E	C	B
STOP	5.2	0.3	5.0
PLAY	5.2	0.3	5.0
REC	5.2	0.3	5.0
F.F	5.2	0.3	5.0
REW	5.2	0.3	5.0

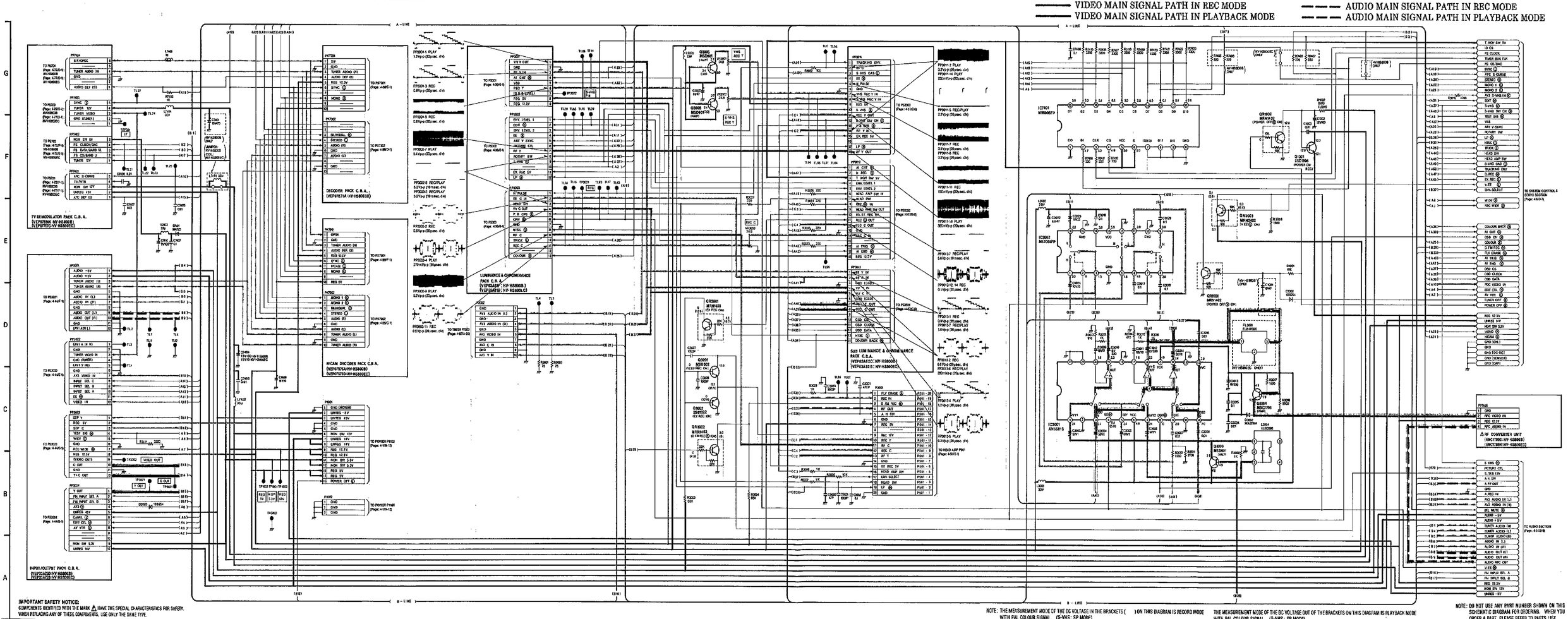
INPUT/OUTPUT CHART FOR IC6002 (M38024V1BH)

PIN NO.	I/O	PORT NAME	PIN NO.	I/O	PORT NAME	PIN NO.	I/O	PORT NAME
1	O	OSD CLK	20	I	L CLK	37	I	VITC OK (H)
2	O	OSD DATA	21	I	5P CLK	38	I	LANGUAGE 2
3	O	OSD CS	22	I	OSC IN	39	I	LANGUAGE 1
4	O	OSD ON (H)	23	O	OSC OUT	40	I	LANGUAGE 0
5, 6	–	—	24	–	GND	41–46	–	—
7	I	L CLK CNT	25	O	JOG LED (H)	47	O	BUS SELECT (B)
8	–	—	26	O	EDIT 21P	48	O	BUS SELECT (A)
9	I	SYS CLK	27	O	AV VTR (L)	49	I	CHECK (L)
10	O	SYS OUT	28	–	—	50–56	–	—
11	I	SYS IN	29	–	—	57, 58	I	VDD
12	O	DATA INH	30	–	—	59	–	GND
13	I	CLK INPUT	31	–	—	60	–	—
14	O	DATA OUT	32	O	EDIT (H)	61	–	—
15	I	DATA IN	33	I	TEST SIGNAL (H)	62	–	—
16, 17	–	—	34	–	—	63	–	—
18	–	GND	35	O	INSIDE (H)	64	I	REC/P1/P2
19	I	RESET (L)	36	I	SERCH MUTE OK (H)			

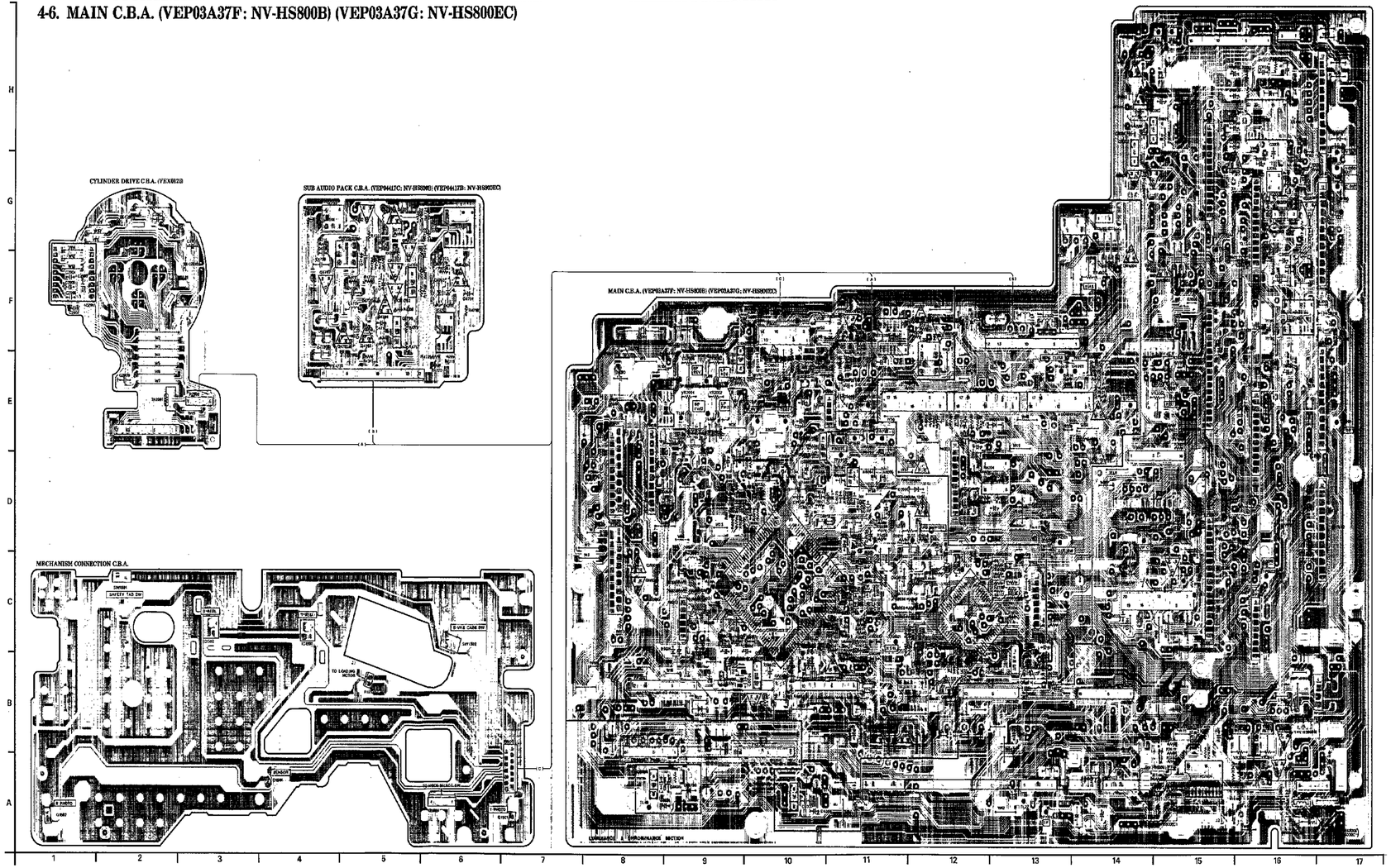
4-4. AUDIO SECTION IN MAIN & SUB AUDIO PACK SCHEMATIC DIAGRAM


--- MAIN SIGNAL PATH IN REC MODE
--- MAIN SIGNAL PATH IN PLAYBACK MODE
BIAS CURR
BIAS
P4001
P4002
P4003
P1501
PP4001
PP4002
PP4003
PP4501
P5501
TO A/C HEAD P1501
TO VR P8602
TO FE HEAD P1509
TO P5402
TO P5403
TO P5404
TO SYSTEM CONTROL & SERVO SECTION
TO LUMINANCE & CHROMINANCE SECTION
QR4004 MRN1404 (POWER OFF ON)
QR4002 DTC363EK (LEVEL DOWN ON)
QR4003 DTC363EK (AUDIO MUTE ON)
QR4005 MRN1404 (A DUB ON)
QR4001 MRN1403 (PAL ON)
IC4001 RUN4565DD
Q4707 2SD601A (OSC)
Q4705 MSB710 (FULL ERASE DRIVE)
Q4706 MSB710 (AUDIO ERASE DRIVE)
Q4708 2SB1378 (SAFETY TAB ON)
Q4701 2SD802A (OSC)
Q4702 MSD601 (S-VHS CASSETTE ON)
Q4703 MSD601 (VHS CASSETTE ON)
QR4701 MRN1403 (D.A REC ON)
QR4702 MRN1403 (D.A REC ON)
QR4703 MRN1403 (FULL ERASE ON)
QR4704 MRN1404 (A.H TRIG ON)
IC4702 MN4066BS
IC4701 AN1368S
HI-FI AUDIO PACK C.B.A. (VEP04447E)
SUB AUDIO PACK C.B.A (VEP04417C : NV-HS800B) (VEP04417B : NV-HS800EG)
NV-H9800EG ONLY
PP4001-5 RSC 50Vp-p (5μsec./div) PP4001-15, 17 REC/PLAY 0.4Vp-p (0.2msec./div)
PP4002-7 RSC/PLAY 0.5Vp-p (0.2msec./div)
PP4003-6 PLAY 1.8Vp-p (10msec./div)
PP4003-13 PLAY 5.0Vp-p (10msec./div)
PP4003-15 REC 0.1Vp-p (0.2μsec./div)
Q4707-C REC 25Vp-p (5μsec./div)
Q4701-C REC 20Vp-p (5μsec./div)
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
• LINE IN SIGNAL LEVEL.... – 10dB 1kHz
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-5. LUMINANCE & CHROMINANCE SECTION IN MAIN SCHEMATIC DIAGRAM


VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE
A LINE
B LINE
TV DEMODULATOR PACK C.B.A. (VEP07030C:NV-H1400EE) (VEP07031C:NV-H1500EE)
INPUT/OUTPUT PACK C.B.A. (VEP01420D:NV-H1600EE) (VEP01421B:NV-H1500EE)
DECODER PACK C.B.A. (VEP02671A:NV-H1600EE)
LUMINANCE & CHROMINANCE PACK C.B.A. (VEP08481A:NV-H1600EE) (VEP08481B:NV-H1500EE)
MAIN DECODER PACK C.B.A. (VEP07575A:NV-H1400EE) (VEP07575B:NV-H1500EE)
SUB LUMINANCE & CHROMINANCE PACK C.B.A. (VEP08482C:NV-H1600EE) (VEP08482B:NV-H1500EE)
A/V CONVERTER UNIT (DNC1091A:NV-H1600EE) (DNC1091B:NV-H1500EE)
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THIS SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-6. MAIN C.B.A. (VEP03A37F: NV-HS800B) (VEP03A37G: NV-HS800EC)



4—21 4—22 4—23

MAIN C.B.A. ADDRESS INFORMATION

SYSTEM CONTROL & SERVO Section	
Transistor	
Q1501	A-7
Q1502	A-1
Q2001	D-12
Q2002	F-12
Q6001	E-9
Q6002	E-10
Q6003	A-10
Q6004	F-11
Q6005	B-11
Q6006	B-12
Q6008	A-8
Transistor & Resistor	
QR2001	D-11
QR2002	E-9
QR5001	E-8
QR6002	C-8
QR6003	C-8
QR6004	B-11
QR6009	B-10
QR6012	B-11
QR6013	F-9
QR6014	B-13
QR6015	F-12
Integrated Circuit	
IC1501	C-4
IC1502	C-3
IC2001	E-9
IC2002	F-11
IC2901	F-1
IC6001	C-10
IC6002	C-12
IC6003	B-10
IC6005	B-12
IC6008	E-10
Test Point	
TP2001	C-11
TP2002	D-11
TP2031	E-11
TP2032	E-11
TP6010	E-10
TP6011	E-10
Adjustment	
VR2001	D-12
VR2002	E-9
VR2003	E-9
VR2004	E-9
VR2005	E-9
Connector	
P1503	B-5
P1504	A-8
P1505	B-7
P1506	E-11
P2901	E-2
P2902	E-3
P6001	F-10
P6003	C-9
P7401	E-8
P7402	D-8
PP2001	B-8
PP2002	B-11
PP7406	E-8

ADDRESS INFORMATION

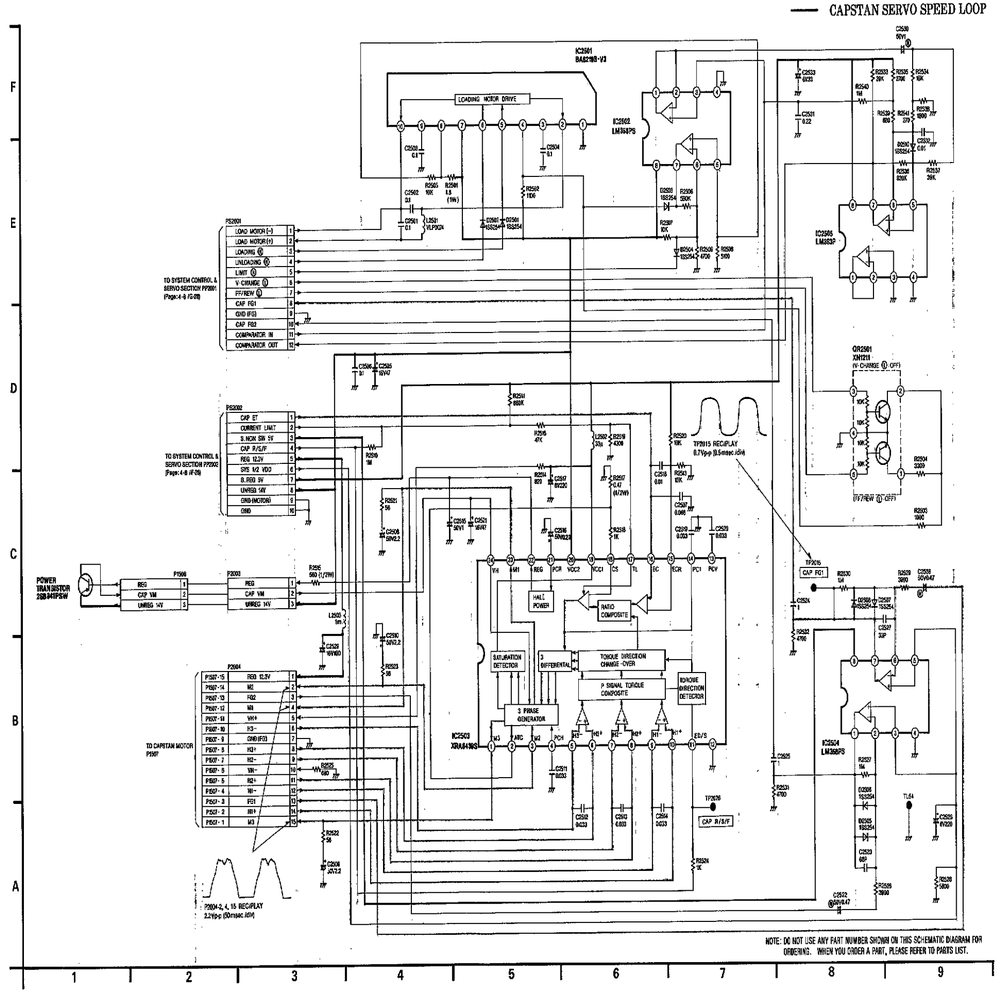
LUMINANCE & CHROMINANCE Section	
Transistor	
Q1001	H-15
Q3001	G-14
Q3002	H-14
Q3003	G-15
Q3004	G-16
Q3005	B-16
Q3006	A-16
Transistor & Resistor	
QR1001	H-14
QR1002	H-14
QR3001	G-15
QR3002	C-15
QR3003	F-15
Integrated Circuit	
IC3001	H-16
IC3002	F-16
IC7401	A-15
Test Point	
TP1001	E-17
TP1002	H-15
TP1003	H-15
TP3201	D-14
TP3202	G-17
TP3221	G-17
TP3222	C-16
TP6221	G-17
Adjustment	
VR3001	B-16
VR3002	B-16
VR3003	E-15
Connector	
P1201	H-15
P1202	H-16
P3201	C-15
P3202	D-14
PK7301	B-10
PK7302	B-8
PK7901	B-14
PK7902	B-13
PP3001	C-16
PP3002	E-16
PP3203	G-16
PP3211	D-15
PP3212	F-15
PP3213	H-15
PP3221	D-17
PP3222	E-17
PP3223	F-17
PP3224	H-17
PP7401	A-16
PP7402	A-14
PP7403	A-13
PP7404	A-11
PP7405	B-17

ADDRESS INFORMATION

AUDIO Section & SUB AUDIO PACK C.B.A.	
Transistor	
Q4701	F-5
Q4702	G-5
Q4703	F-5
Q4704	F-5
Q4705	G-5
Q4706	F-5
Q4707	F-4
Q4708	F-5
Transistor & Resistor	
QR4091	D-12
QR4002	E-14
QR4003	D-14
QR4004	F-14
QR4005	B-10
QR4701	F-5
QR4702	F-5
QR4703	G-5
QR4704	F-5
Integrated Circuit	
IC4001	D-13
IC4701	F-6
IC4702	G-6
Adjustment	
VR4002	F-14
Test Point	
TP4002	E-14
TP4003	E-13
TP4004	E-14
TP4501	E-11
TP4511	D-13
Connector	
P4001	G-14
P4002	D-12
P4003	G-14
PP4001	E-13
PP4002	E-12
PP4003	E-11
PP4501	F-13
PS4701	E-4

ADDRESS INFORMATION

4-7. CAPSTAN DRIVE PACK SCHEMATIC DIAGRAM



CAPSTAN DRIVE PACK ICs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	IC2501										IC2502							
MODE	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8
STOP	0	0	0	8.9	0	0	14.4	14.4	9	0	0	0	0	0	4.9	0.7	13.1	14.4
PLAY	0	0.4	0	8.8	0	0	14.3	14.3	9	0	0	0	0	0	4.8	0.7	13.0	14.3
REC	0	0.3	0.1	8.8	0	0	14.3	14.3	9	0.1	0	0	0	0	4.8	0.7	13.0	14.3
F.F	0.1	0	0	14.2	0.1	0.1	14.3	14.3	9	0	0	0	0	0	4.8	0.7	13.7	14.3
REW	0	0.2	0	14.2	0	0	14.3	14.3	0.1	0	0	0	0	0	4.8	0.7	13.7	14.3

REF. NO.	IC2503																			
MODE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
STOP	1.1	0	1.1	1.5	2.3	2.4	2.3	2.4	2.4	2.3	2.0	0	1.2	2.6	2.9	1.4	0	0	5.2	14.4
PLAY	3.1	0.1	3.1	1.5	2.4	2.4	2.4	2.4	2.4	2.4	0	0	0.6	0.7	2.9	2.6	0.5	0.1	5.2	14.3
REC	3.1	0.1	3.1	1.5	2.4	2.4	2.4	2.4	2.4	2.4	0	0	0.6	0.7	2.9	2.6	0.5	0.1	5.2	14.3
F.F	7.7	0.2	7.7	1.5	2.4	2.4	0	2.4	2.4	2.4	0	0.1	1.0	0.8	2.9	1.9	0.5	0	5.2	14.3
REW	7.3	0.2	7.3	1.5	2.4	2.4	2.4	2.4	2.4	2.4	5.0	0.1	0.9	0.7	2.9	2.5	0.5	0.2	5.2	14.2

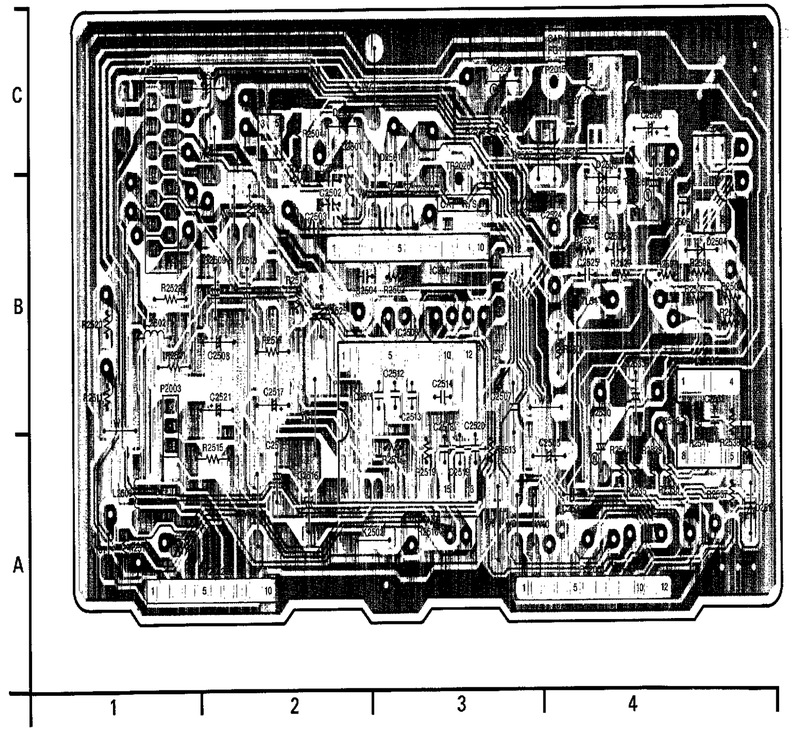
REF. NO.	IC2503																			
MODE	21	22	23	24																
STOP	0.5	13.8	1.1	4.7																
PLAY	2.3	13.1	3.1	4.7																
REC	2.3	13.1	3.1	4.6																
F.F	12.1	5.8	7.3	14.2																
REW	8.9	6.5	7.1	14.2																

REF. NO.	IC2504										IC2505									
MODE	1	2	3	4	5	6	7	8			1	2	3	4	5	6	7	8		
STOP	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0			0	0.5	0.5	0	2.4	2.9	0	5.2		
PLAY	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0			0	0.4	0.4	0	2.4	2.9	0	5.2		
REC	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0			0	0.4	0.4	0	2.4	2.9	0	5.2		
F.F	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0			0	0.4	0.4	0	2.4	2.9	0	5.2		
REW	2.5	2.5	2.5	0	2.5	2.5	2.5	5.0			0	0.4	0.4	0	2.4	2.9	0	5.2		

CAPSTAN DRIVE PACK TRANSISTORs DC VOLTAGE CHART (S-VHS: SP MODE)

REF. NO.	Q2501														
MODE	1	2	3	4	5										
STOP	0	0.1	4.9	0	4.9										
PLAY	0	0.1	4.9	0	4.9										
REC	0	0.1	4.9	0	4.9										
F.F	14.2	14.2	0	0	0										
REW	14.2	14.2	0	0	0										

4-8. CAPSTAN DRIVE PACK C.B.A. (VEP02412B)



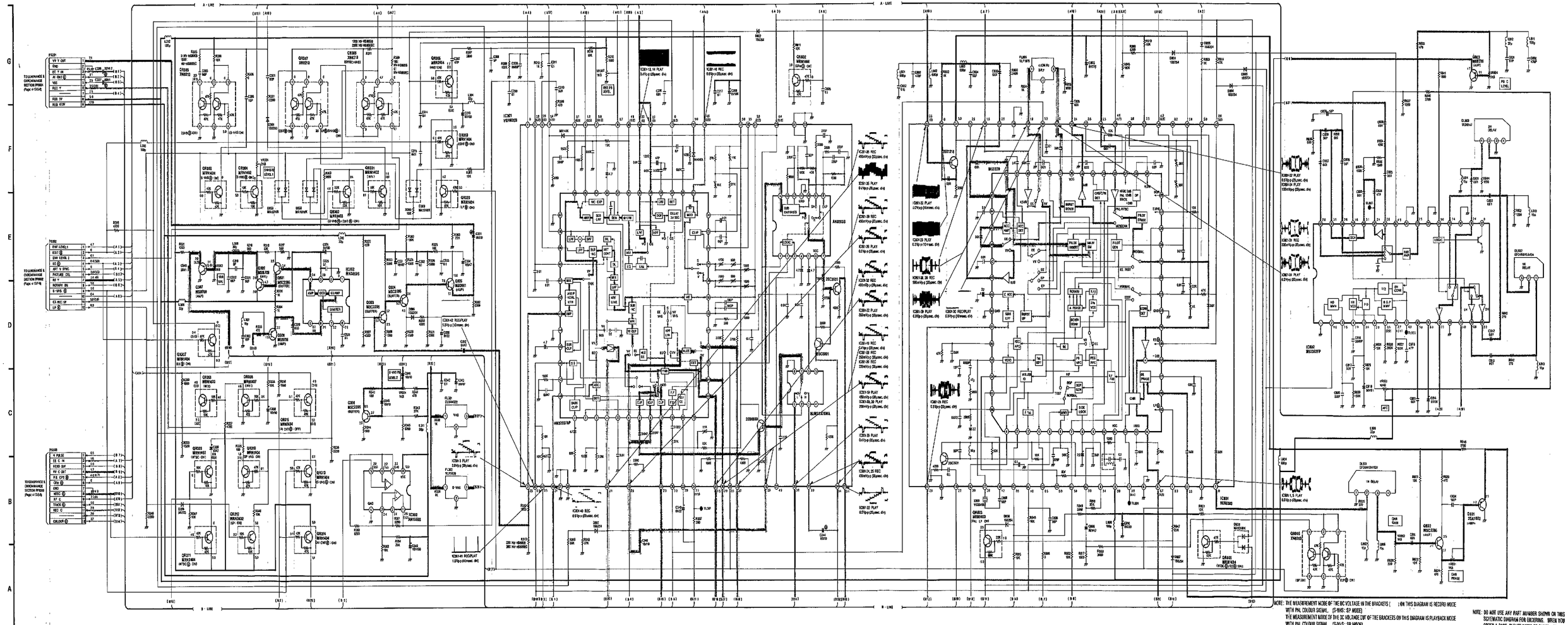
CAPSTAN DRIVE PACK C.B.A.	
Transistor & Resistor	
Q2501	C-2
Integrated Circuit	
IC2501	B-3
IC2502	C-4
IC2503	B-3
IC2504	C-4
IC2505	B-4
Test Point	
TP2015	C-4
TP2026	B-3
Connector	
P2003	B-1
P2004	C-1
PS2001	A-4
PS2002	A-2

ADDRESS INFORMATION

4-9. LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM

MAIN SIGNAL PATH IN REC MODE

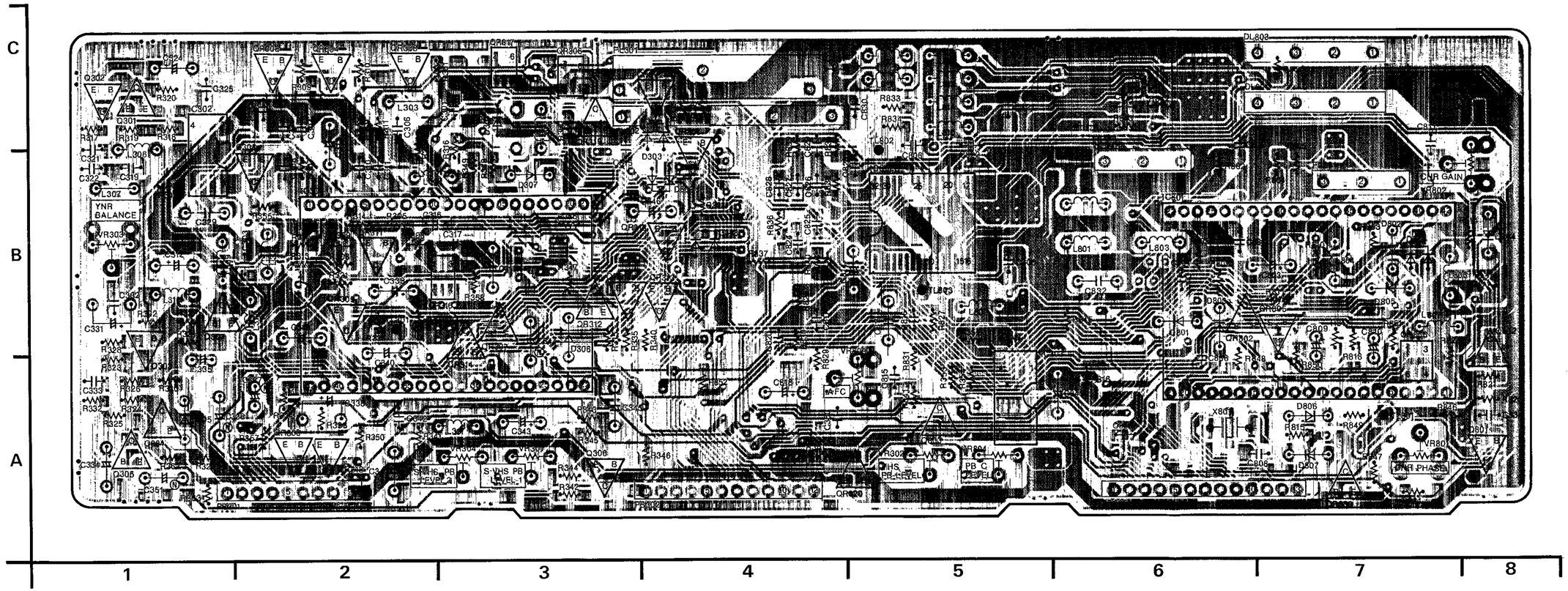
MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS [ ] ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

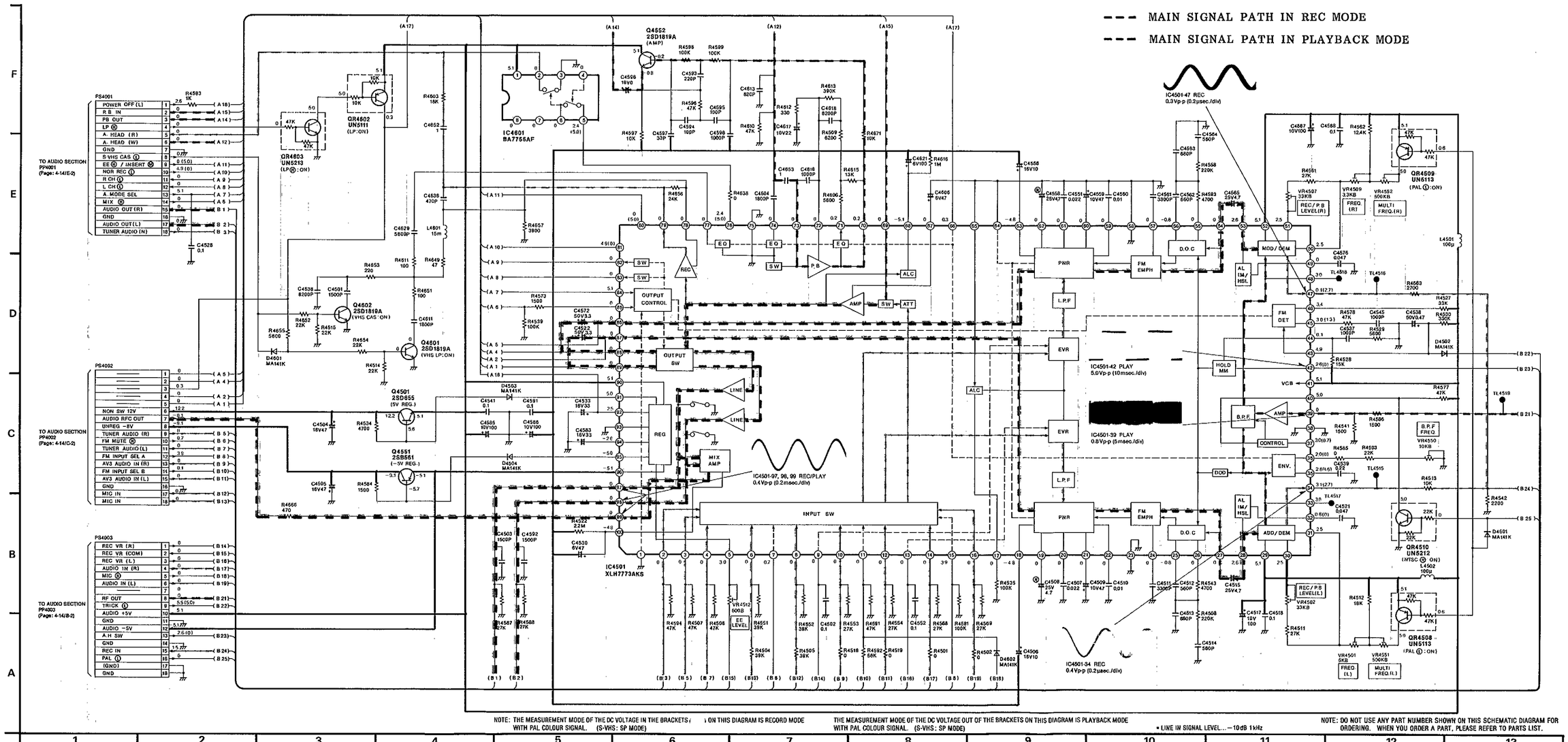
4-10. LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A61F: NV-HS800B) (VEP03A61D: NV-HS800EC)



LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q301	C-1
Q302	C-1
Q303	A-1
Q304	A-1
Q305	A-1
Q306	A-3
Q307	B-1
Q308	B-2
Q801	A-8
Q802	B-8
Q803	A-5
Transistor & Resistor	
QR301	C-4
QR302	C-4
QR303	C-2
QR304	C-2
QR305	C-2
QR306	C-3
QR307	B-3
QR308	A-2
QR309	B-2
QR310	B-3
QR311	B-2
QR312	B-3
QR313	B-4
QR314	B-3
QR315	B-4
QR316	B-3
QR317	C-3
QR318	A-2
QR319	C-3
QR320	A-5
QR802	B-6
QR803	A-7
QR805	B-7
QR806	B-7
Integrated Circuit	
IC301	B-2
IC302	C-1
IC303	A-5
IC801	B-6
IC802	B-5
Adjustment	
VR301	A-3
VR302	A-5
VR303	B-1
VR304	A-3
VR801	A-7
VR802	B-7
VR803	A-5
VR804	A-5
Connector	
PS301	A-2
PS302	A-4
PS303	A-6

ADDRESS INFORMATION

4-11. Hi-Fi AUDIO PACK SCHEMATIC DIAGRAM



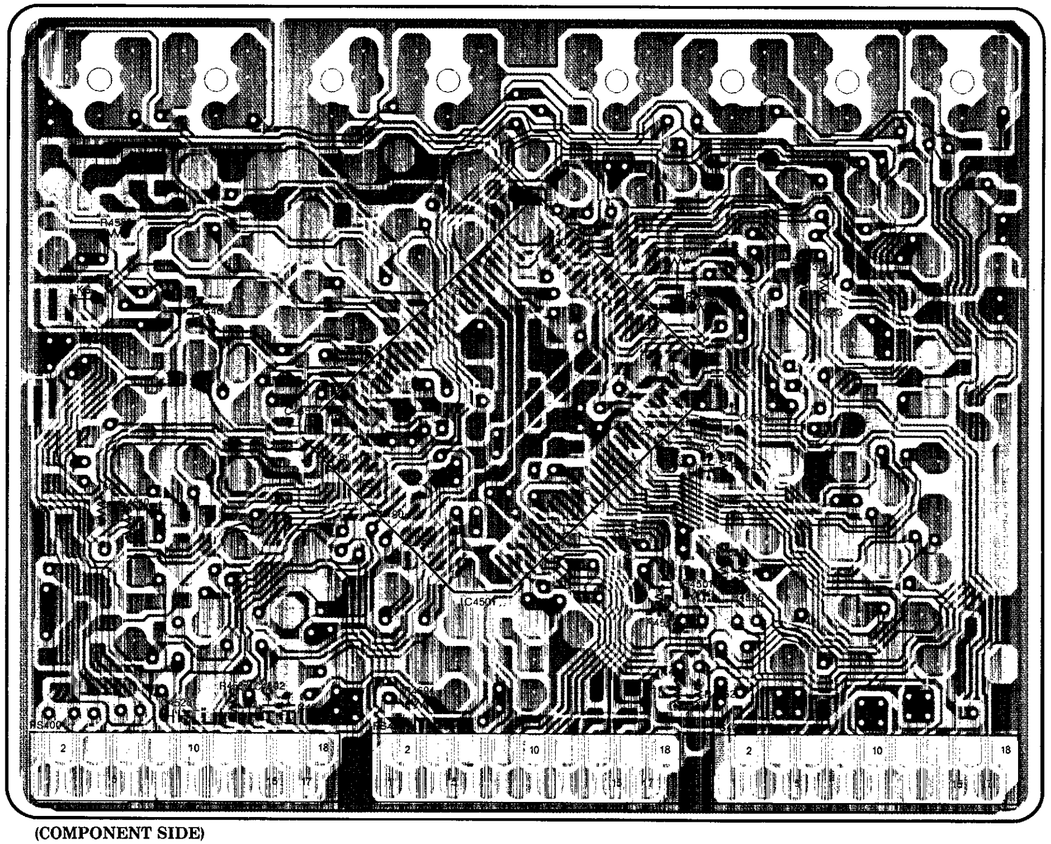
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

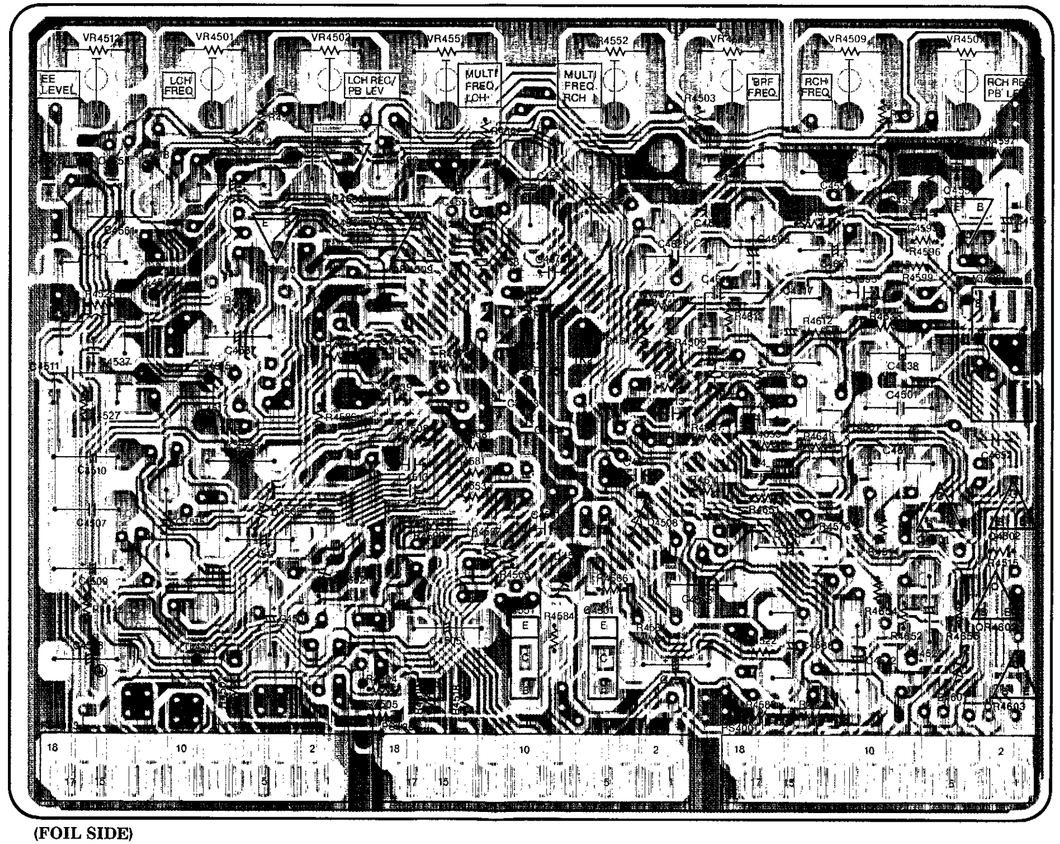
* LINE IN SIGNAL LEVEL... −10dB 1kHz

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-12. Hi-Fi AUDIO PACK C.B.A. (VEP04447E)



(COMPONENT SIDE)



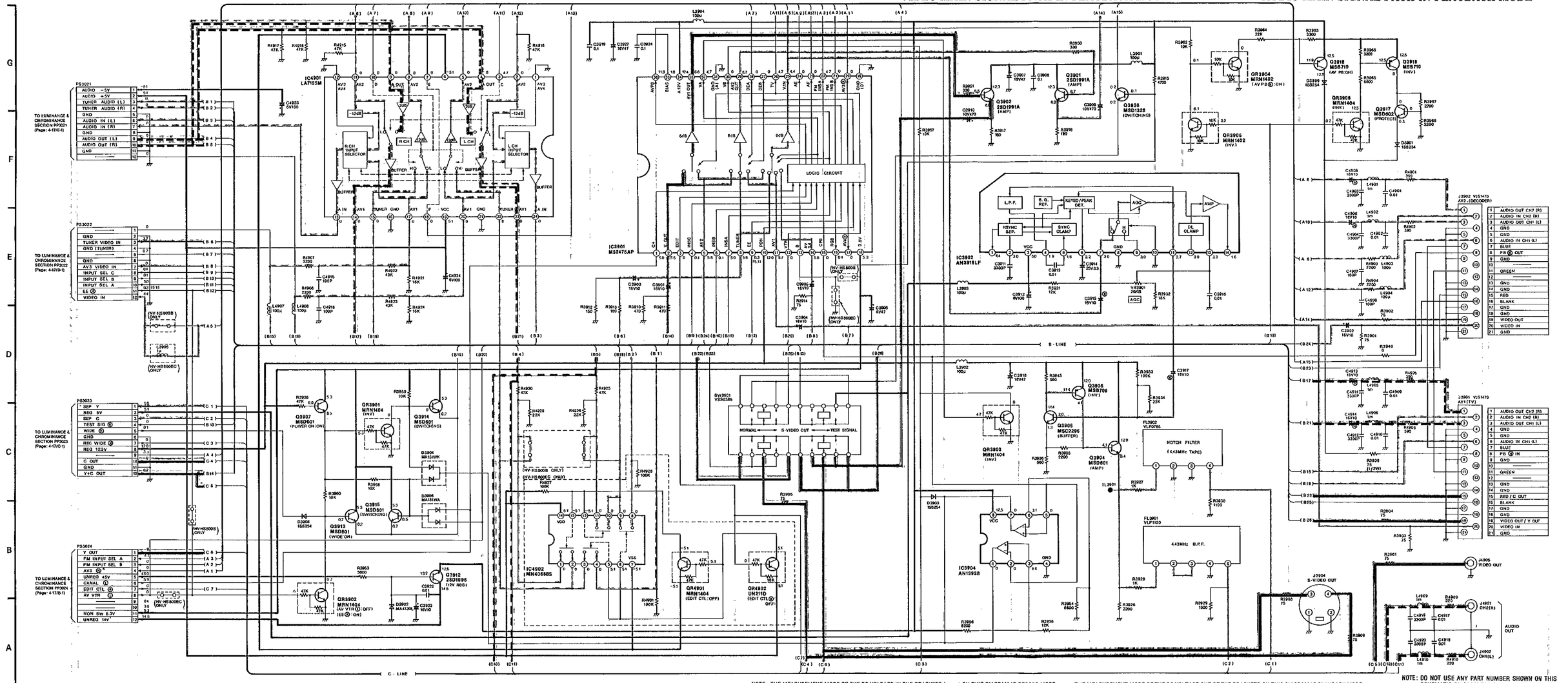
(FOIL SIDE)

HI-FI AUDIO PACK C.B.A.	
Transistor	
Q4501	A-7
Q4551	A-7
Q4552	C-9
Q4601	B-9
Q4602	B-9
Transistor & Resistor	
QR4508	C-6
QR4509	C-7
QR4510	C-8
QR4602	A-9
QR4603	A-9
Integrated Circuit	
IC4501	B-3
IC4601	C-9
Adjustment	
VR4501	D-6
VR4502	D-8
VR4507	D-9
VR4509	D-8
VR4512	D-5
VR4550	D-8
VR4551	D-7
VR4552	D-7
Connector	
PS4001	A-1
PS4001	A-8
PS4002	A-2
PS4002	A-7
PS4003	A-4
PS4003	A-5

ADDRESS INFORMATION

4-13. INPUT/OUTPUT PACK SCHEMATIC DIAGRAM

VIDEO MAIN SIGNAL PATH IN REC MODE
VIDEO MAIN SIGNAL PATH IN PLAYBACK MODE
AUDIO MAIN SIGNAL PATH IN REC MODE
AUDIO MAIN SIGNAL PATH IN PLAYBACK MODE



NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS RECORD MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

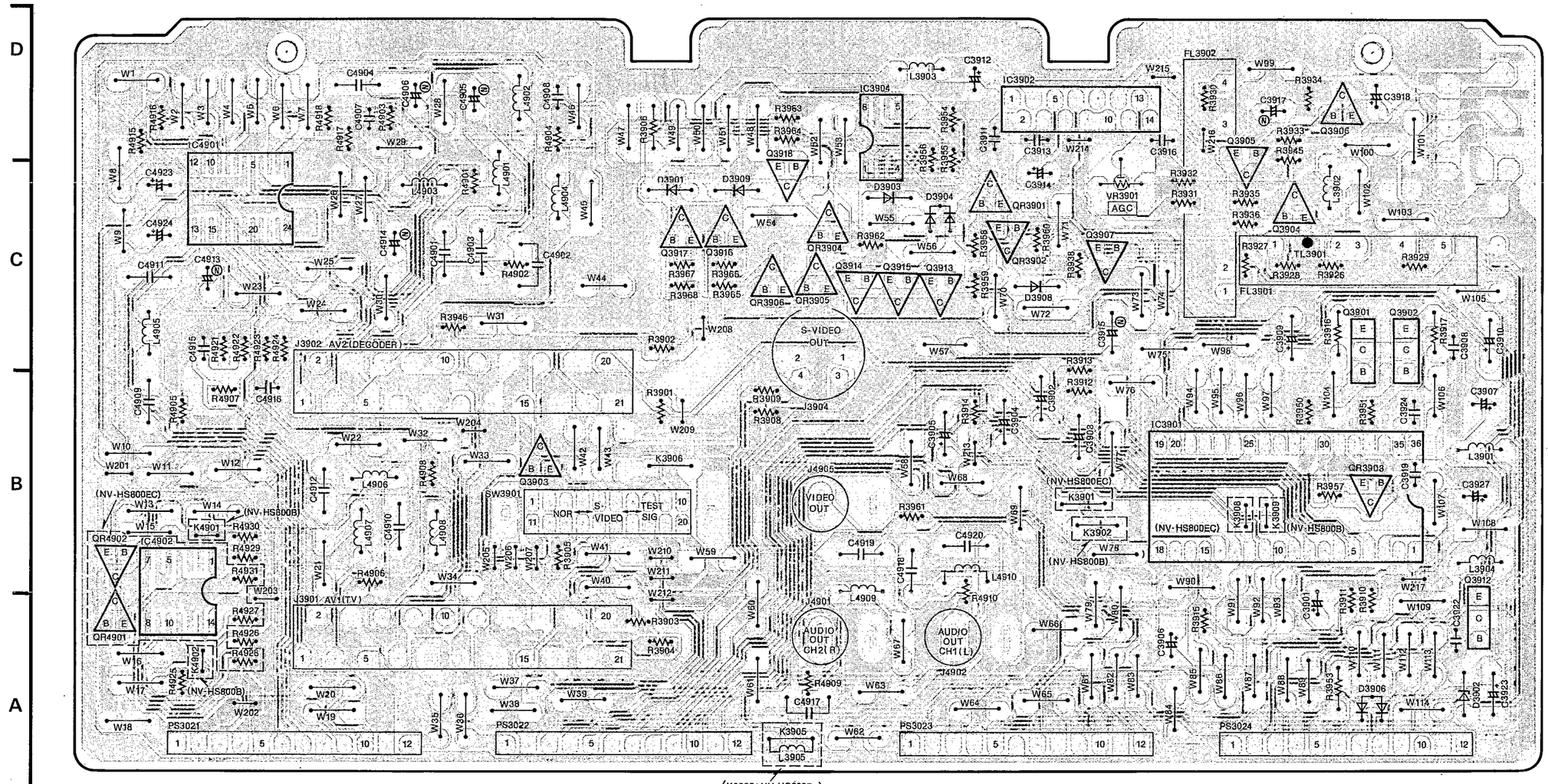
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS: SP MODE)

NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-14. INPUT/OUTPUT PACK C.B.A. (VEP03A72D: NV-HS800B) (VEP03A72B: NV-HS800EC)

INPUT/OUTPUT PACK C.B.A.					
Transistor		**Transistor & Resistor**		**Adjustment**	
Q3901	C-6	QR3901	C-5	VR3901	C-5
Q3902	C-7	QR3902	C-5	**Connector**	
Q3903	B-3	QR3903	B-7	PS3021	A-1
Q3904	C-6	QR3904	C-4	PS3022	A-3
Q3905	D-6	QR3905	C-4	PS3023	A-5
Q3906	D-6	QR3906	C-4	PS3024	A-6
Q3907	C-5	QR4901	A-1		
Q3912	B-7	QR4902	B-1		
Q3913	C-5	**Integrated Circuit**			
Q3914	C-4	IC3901	B-6		
Q3915	C-4	IC3902	D-5		
Q3916	C-4	IC3904	D-4		
Q3917	C-3	IC4901	C-1		
Q3918	C-4	IC4902	B-1		

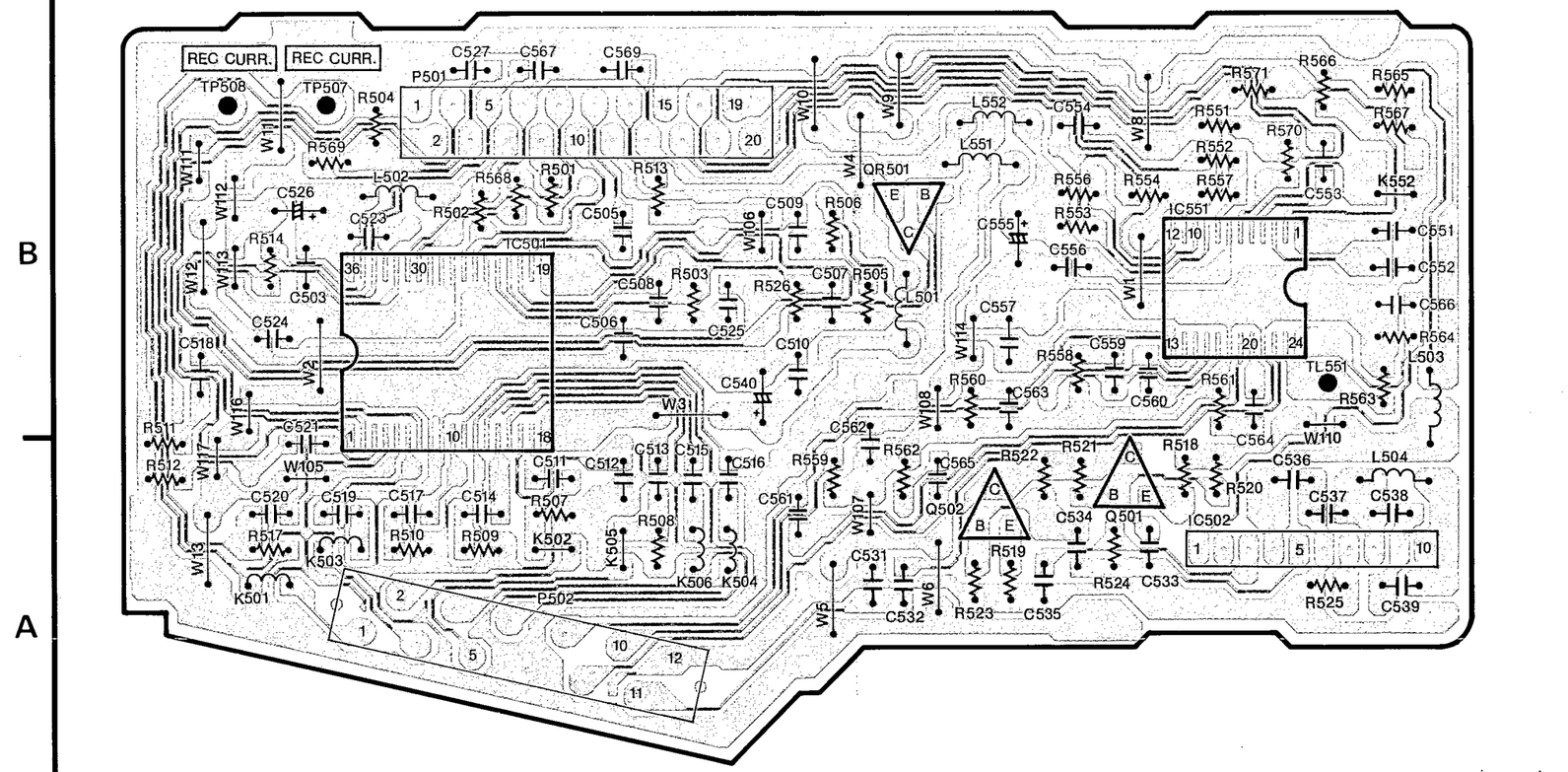
ADDRESS INFORMATION



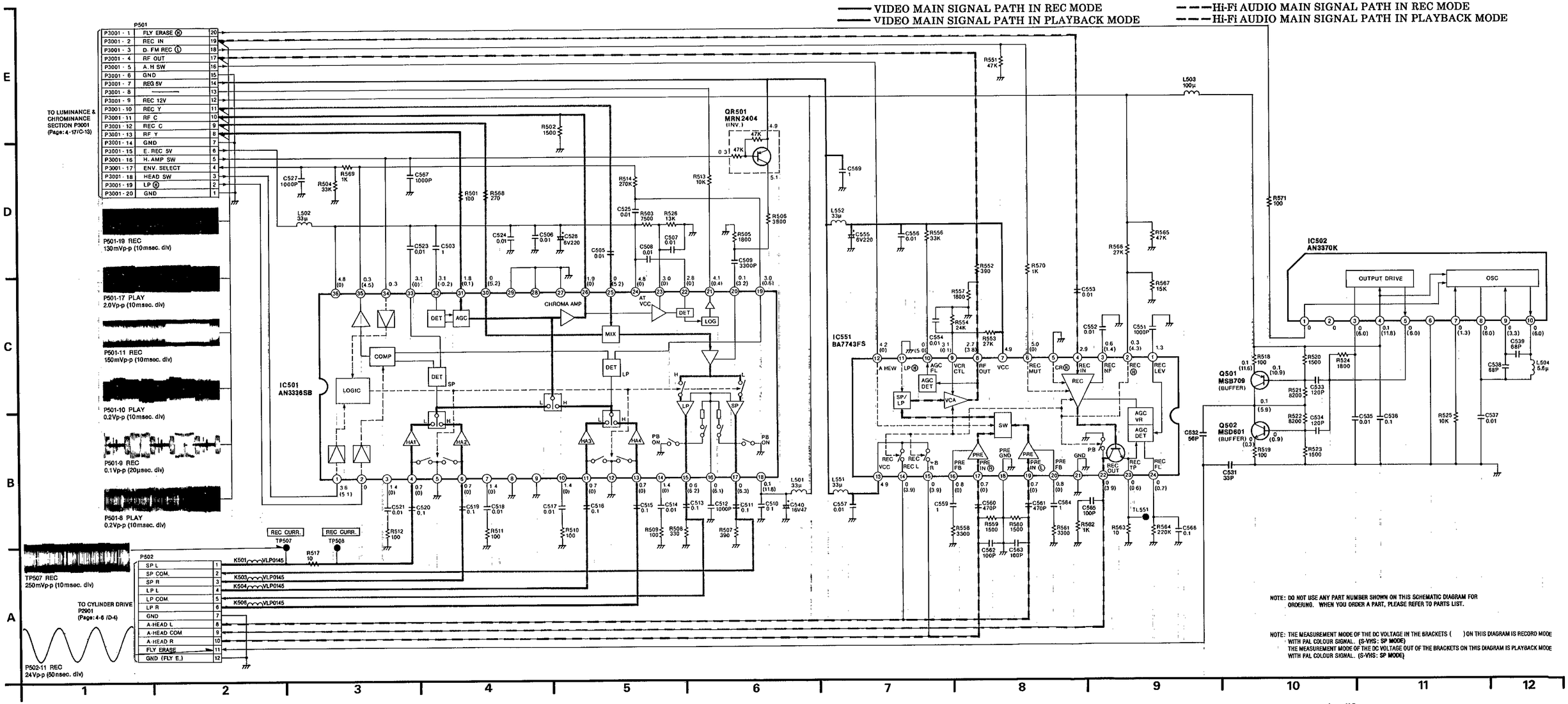
4-15. HEAD AMP C.B.A. (VEP05176G)

HEAD AMP C.B.A.	
Transistor	
Q501	A-3
Q502	A-3
Transistor & Resistor	
QR501	B-3
Integrated Circuit	
IC501	B-1
IC502	A-4
IC551	B-4
Test Point	
TL551	B-4
TP507	B-1
TP508	B-1
Connector	
P501	B-2
P502	A-1

ADDRESS INFORMATION

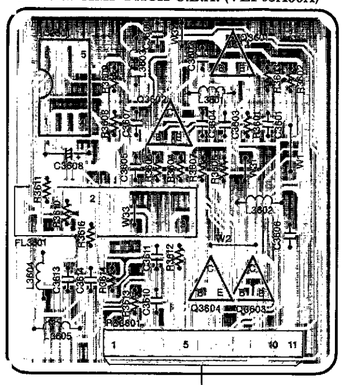


4-16. HEAD AMP SCHEMATIC DIAGRAM

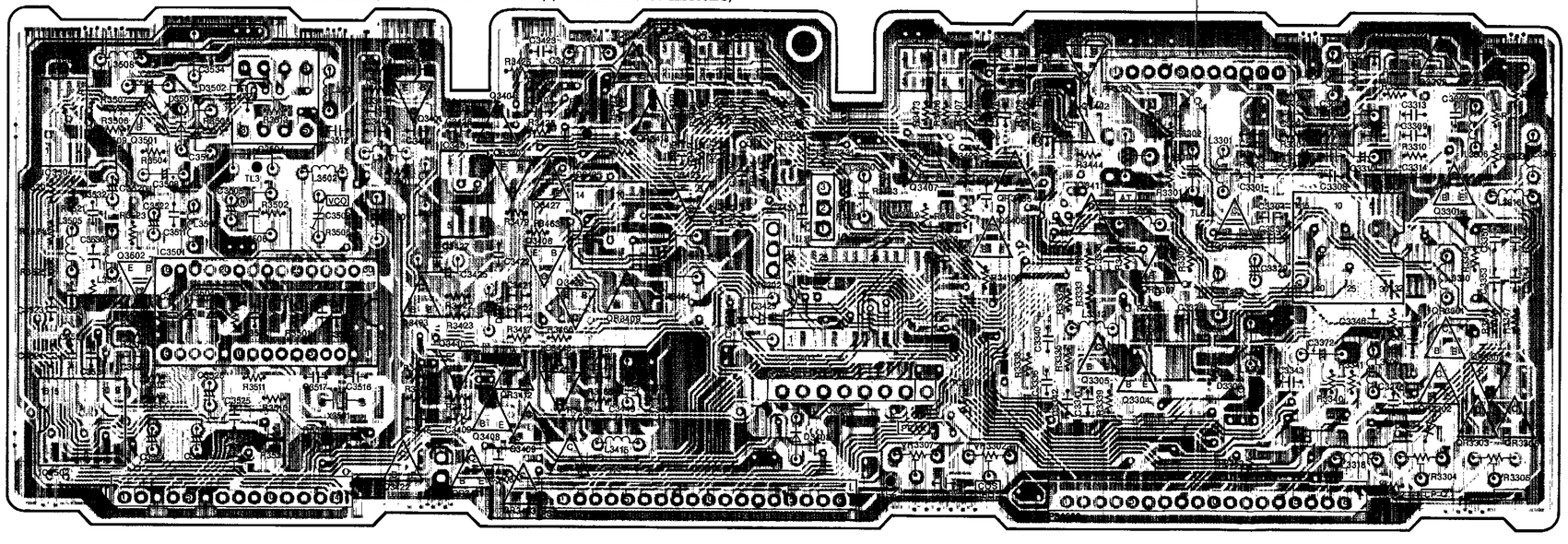


4-17. SUB LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A62C: NV-HS800B) (VEP03A62B: NV-HS800EC)

REC/RF AMP PACK C.B.A. (VEP03A90A)



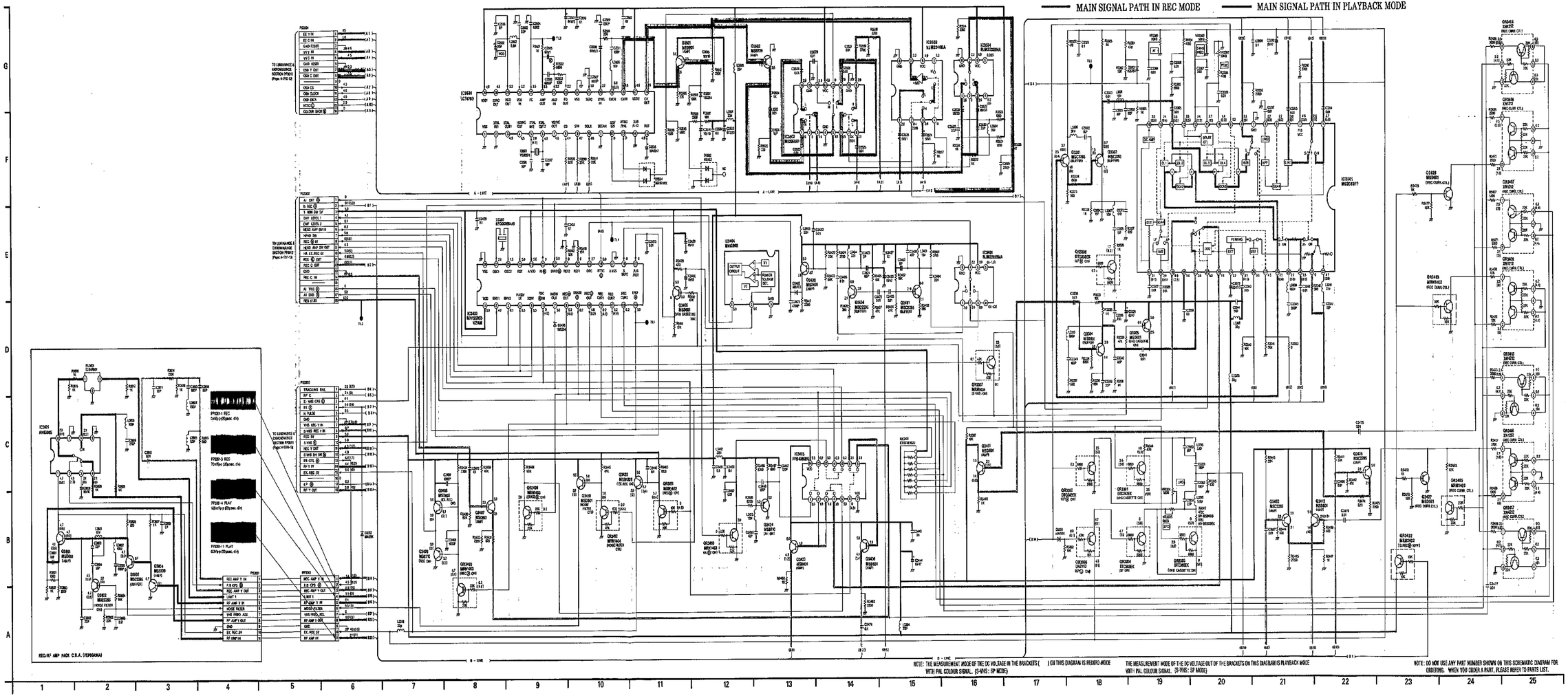
SUB LUMINANCE & CHROMINANCE PACK C.B.A. (VEP03A62C: NV-HS800B) (VEP03A62B: NV-HS800EC)



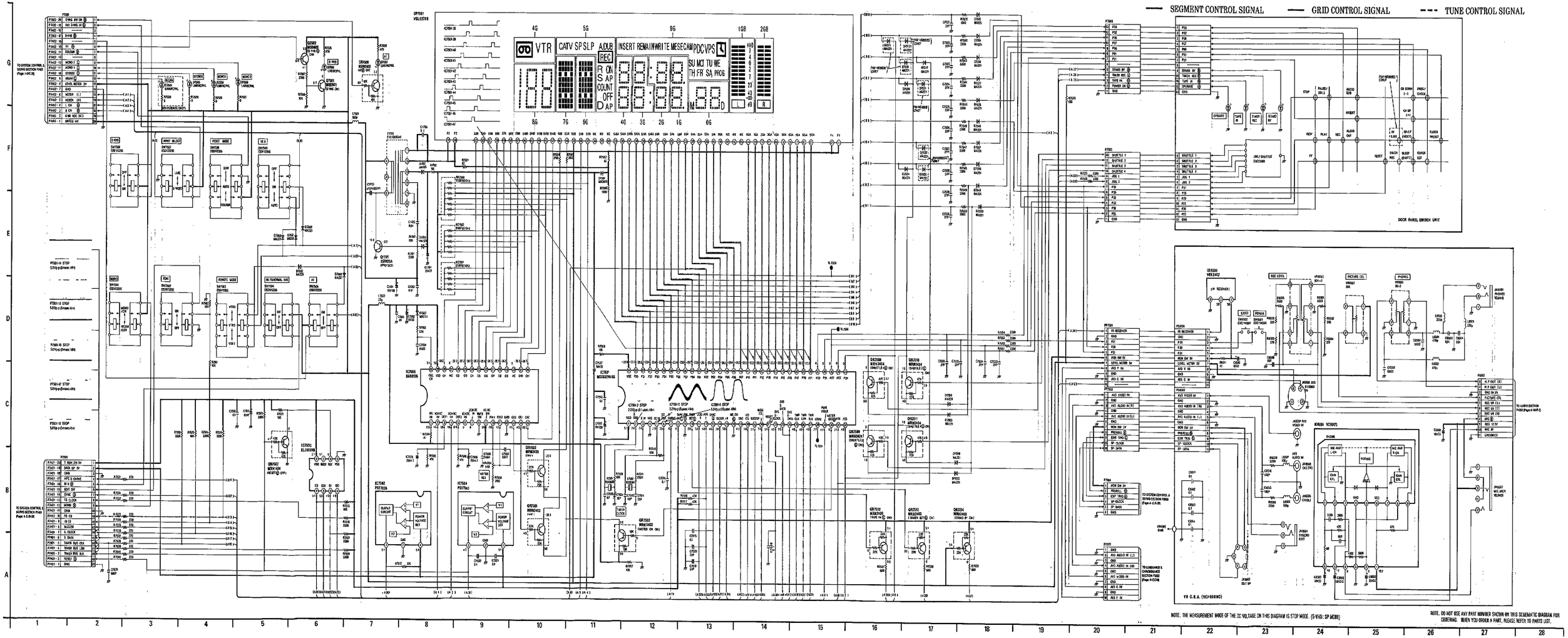
SUB LUMINANCE & CHROMINANCE PACK C.B.A.	
Transistor	
Q3301	B-7
Q3302	C-7
Q3304	A-6
Q3305	A-6
Q3401	C-3
Q3402	C-3
Q3403	B-3
Q3404	C-3
Q3405	B-5
Q3406	B-3
Q3407	B-5
Q3408	A-3
Q3409	A-3
Q3410	A-3
Q3411	B-6
Q3412	C-6
Q3422	A-3
Q3423	B-3
Q3424	A-3
Q3425	B-4
Q3426	C-4
Q3427	B-3
Q3501	C-1
Q3502	B-1
Q3601	E-6
Q3602	D-6
Q3603	D-6
Q3604	D-6
Transistor & Resistor	
QR3301	B-7
QR3302	A-7
QR3303	A-7
QR3304	A-8
QR3305	A-8
QR3306	B-6
QR3307	B-6
QR3402	B-3
QR3403	A-3
QR3404	B-4
QR3405	B-5
QR3406	C-4
QR3407	C-4
QR3408	C-4
QR3409	B-4
QR3410	A-3
QR3411	A-3
QR3412	A-3
QR3415	C-5
QR3416	C-5
QR3417	C-5
QR3418	B-4
Integrated Circuit	
IC3301	B-7
IC3401	B-3
IC3403	B-4
IC3404	B-4
IC3405	B-3
IC3501	B-2
IC3502	A-1
IC3503	C-2
IC3504	B-1
IC3601	E-6
Adjustment	
C3502	B-2
VR3301	B-6
VR3302	A-5
VR3304	A-7
VR3305	A-8
VR3307	A-5
Connector	
PP3301	C-6
PS3302	A-3
PS3303	A-6
PS3501	A-1
PS3601	C-6

ADDRESS INFORMATION

4-18. SUB LUMINANCE & CHROMINANCE PACK SCHEMATIC DIAGRAM


MAIN SIGNAL PATH IN REC MODE
MAIN SIGNAL PATH IN PLAYBACK MODE
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE IN THE BRACKETS ( ) ON THIS DIAGRAM IS REC/PB MODE WITH PAL COLOUR SIGNAL. (S-VHS : SP MODE)
THE MEASUREMENT MODE OF THE DC VOLTAGE OUT OF THE BRACKETS ON THIS DIAGRAM IS PLAYBACK MODE WITH PAL COLOUR SIGNAL. (S-VHS : SP MODE)
NOTE : DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.
REC/PB AMP PACK C.B.A. (VEP58406A)
4—57
4—58
4—59
4—60
4—61

4-19. TIMER & VR SCHEMATIC DIAGRAM

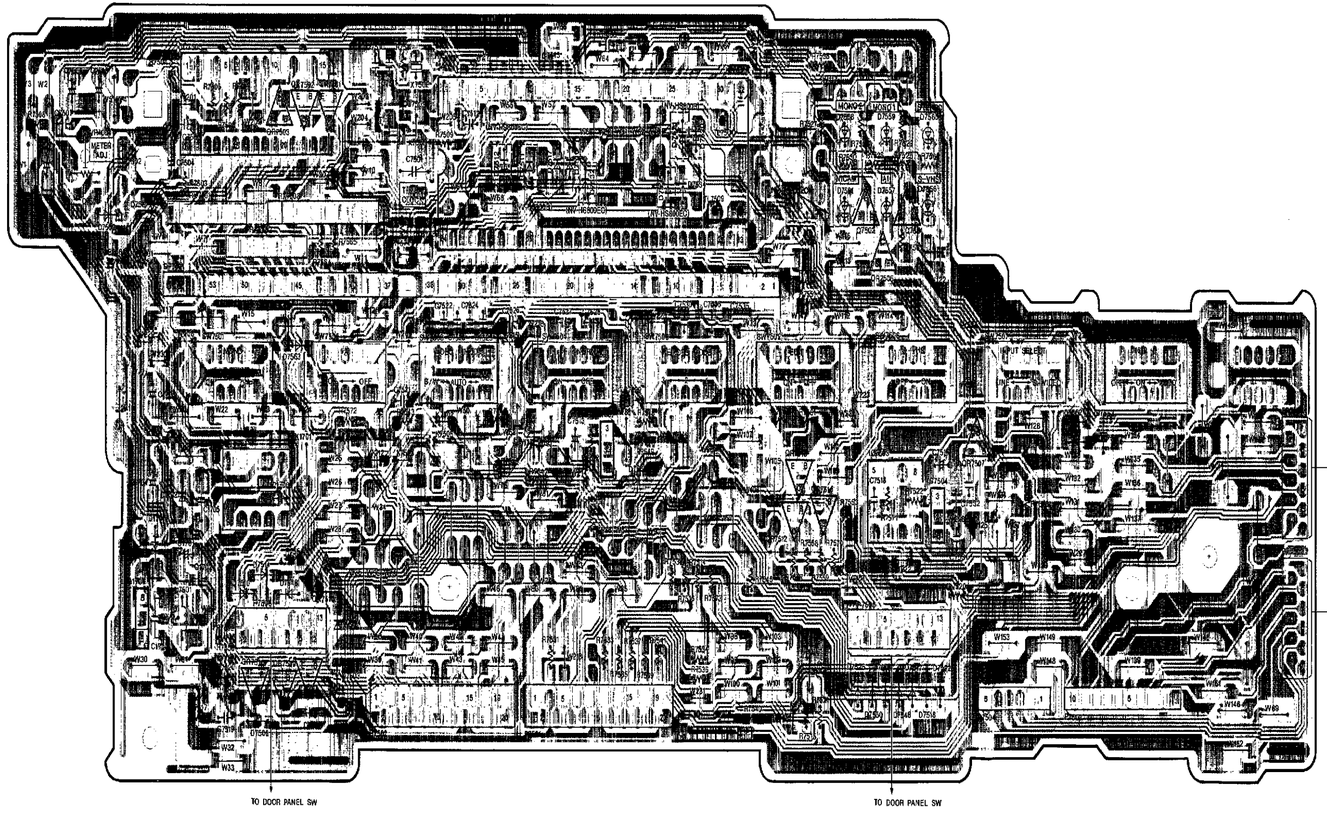


NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE. (S-VHS: SP MODE)

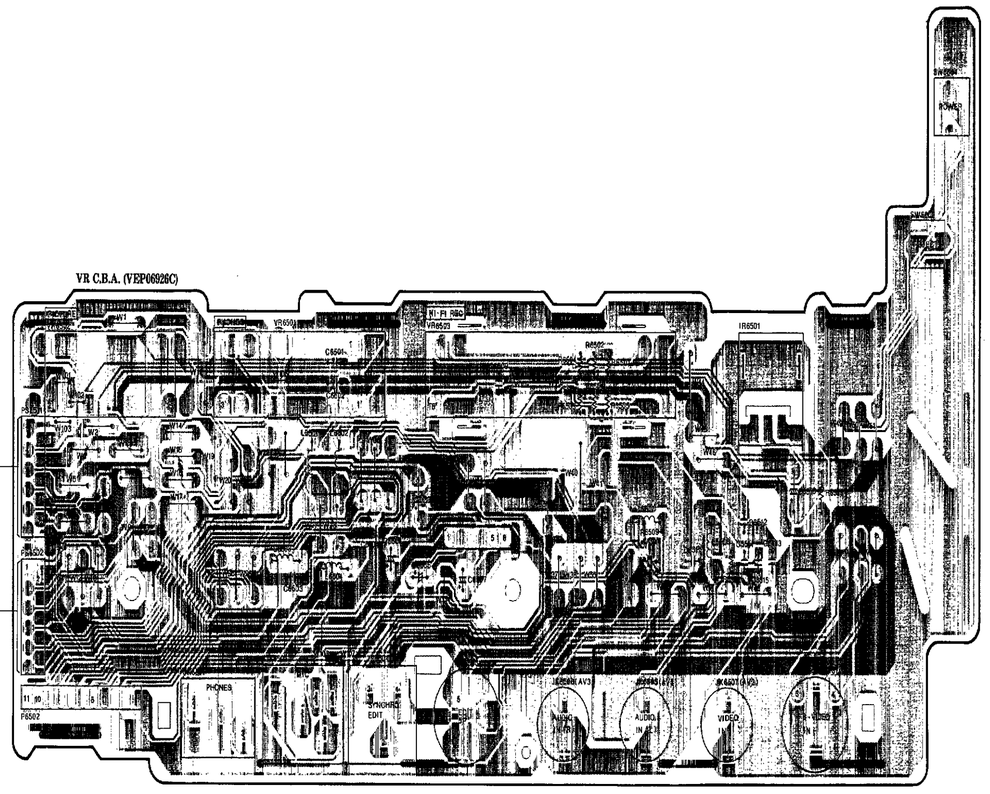
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-20. TIMER C.B.A. (VEP07739J: NV-HS800B) (VEP07739K: NV-HS800EC) & VR C.B.A. (VEP06926C)

TIMER C.B.A. (VEP07739J: NV-HS800B) (VEP07739K: NV-HS800EC)



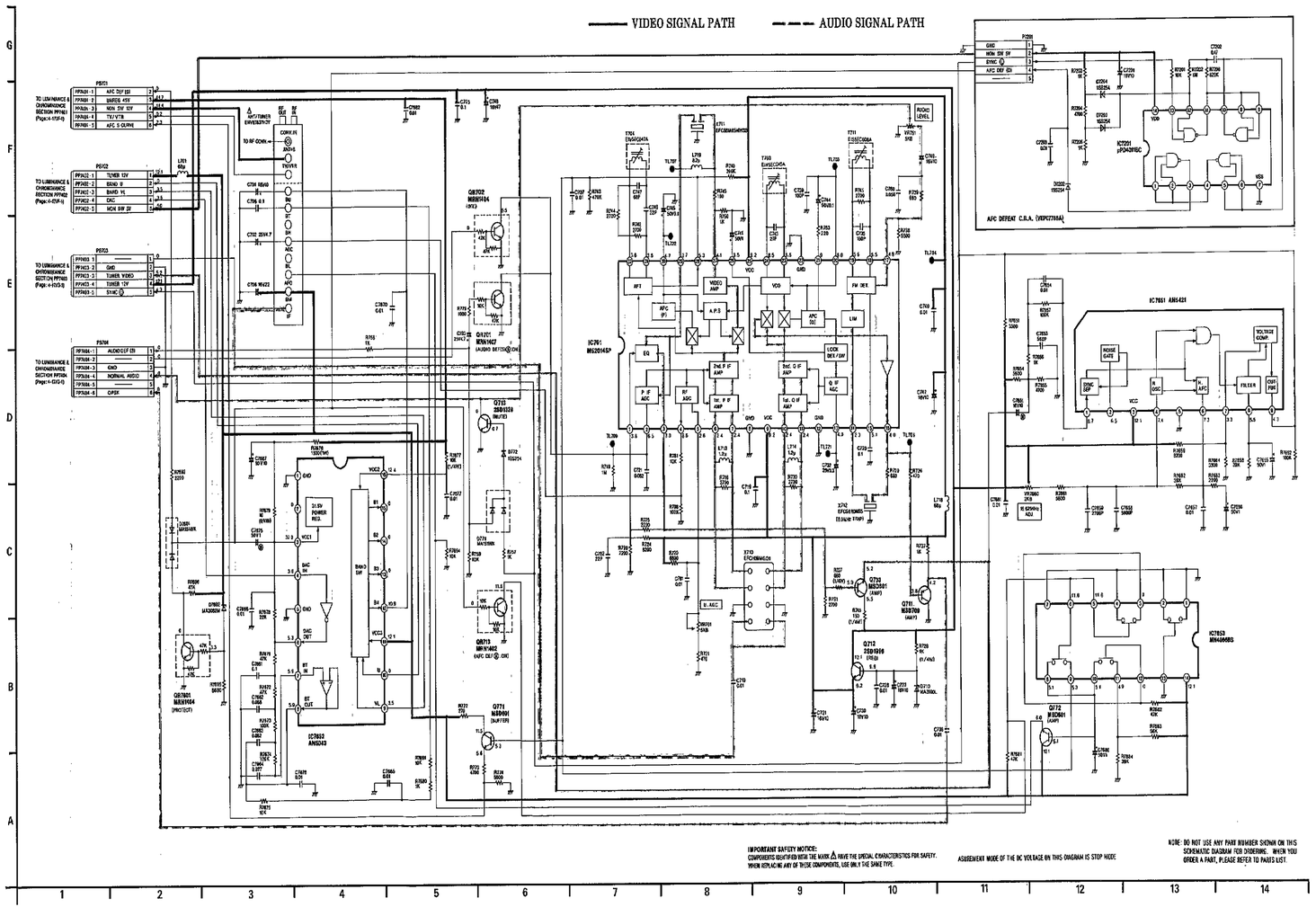
VR C.B.A. (VEP06926C)



TIMER C.B.A. & VR C.B.A.	
Transistor	
Q1701	B-2
Q7501	A-7
Q7502	A-7
Transistor & Resistor	
QR7501	D-3
QR7502	D-3
QR7503	D-3
QR7506	C-7
QR7507	B-7
QR7508	A-3
QR7509	A-5
QR7510	B-5
QR7511	A-2
QR7512	B-6
QR7513	B-6
QR7514	B-6
Integrated Circuit	
IC6501	B-13
IC7501	D-5
IC7502	B-5
IC7503	B-7
IC7504	B-7
IC7505	D-2
Adjustment	
C7501 *	D-4
VR4004	D-1
VR6504	C-12
VR6502	C-10
VR6503	C-12
Connector	
P6502	A-10
P7501	A-4
P7502	A-4
P7503	A-3
P7504	A-5
P7505	B-2
P7506	B-7
P7P501	B-16
P7P502	B-16
PS8501	B-16
PS8502	B-16

ADDRESS INFORMATION

4-21. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-HS800B)

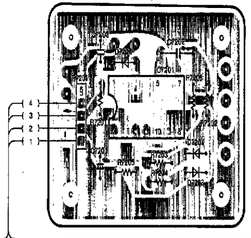

VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
AFC DEFEAT C.B.A. (VEP07786A)
IC7651 AN5431
IC7653 AN5243
IC701 MN2004SP
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.
ASSESSMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

4-22. TV DEMODULATOR PACK C.B.A. (VEP07680K: NV-HS800B)

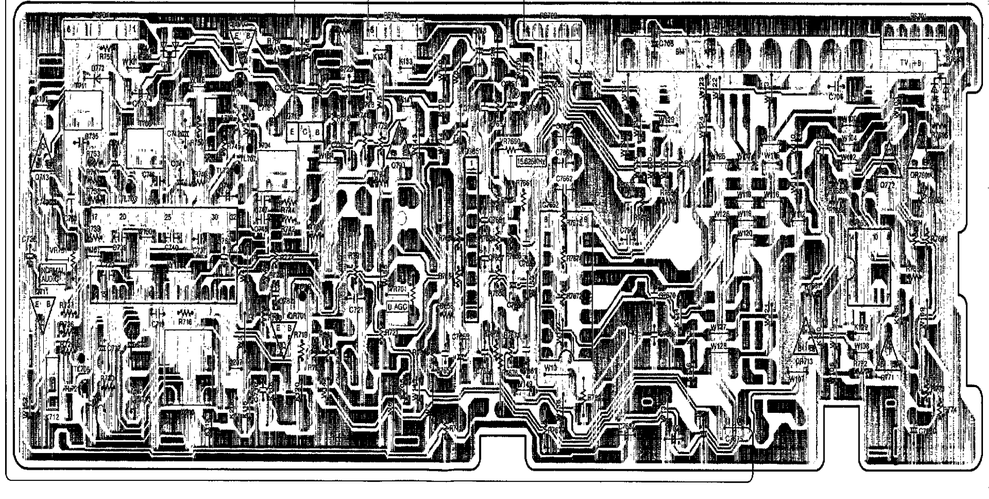
TV DEMODULATOR PACK C.B.A.			
Transistor		**Adjustment**	
Q703	B-3	T703	B-2
Q711	B-1	T704	B-3
Q712	B-3	T711	C-1
Q713	B-1	VR701	B-4
Q771	A-7	VR751	B-1
Q772	B-7	VR7660	B-4
Transistor & Resistor		**Connector**	
QR701	A-3	P7201	D-2
QR702	C-2	PS701	C-7
QR713	A-6	PS702	C-5
QR7601	B-7	PS703	C-3
Integrated Circuit		PS704	C-1
IC701	B-2		
IC7201	D-2		
IC7551	B-4		
IC7552	B-5		
IC7553	B-7		

ADDRESS INFORMATION

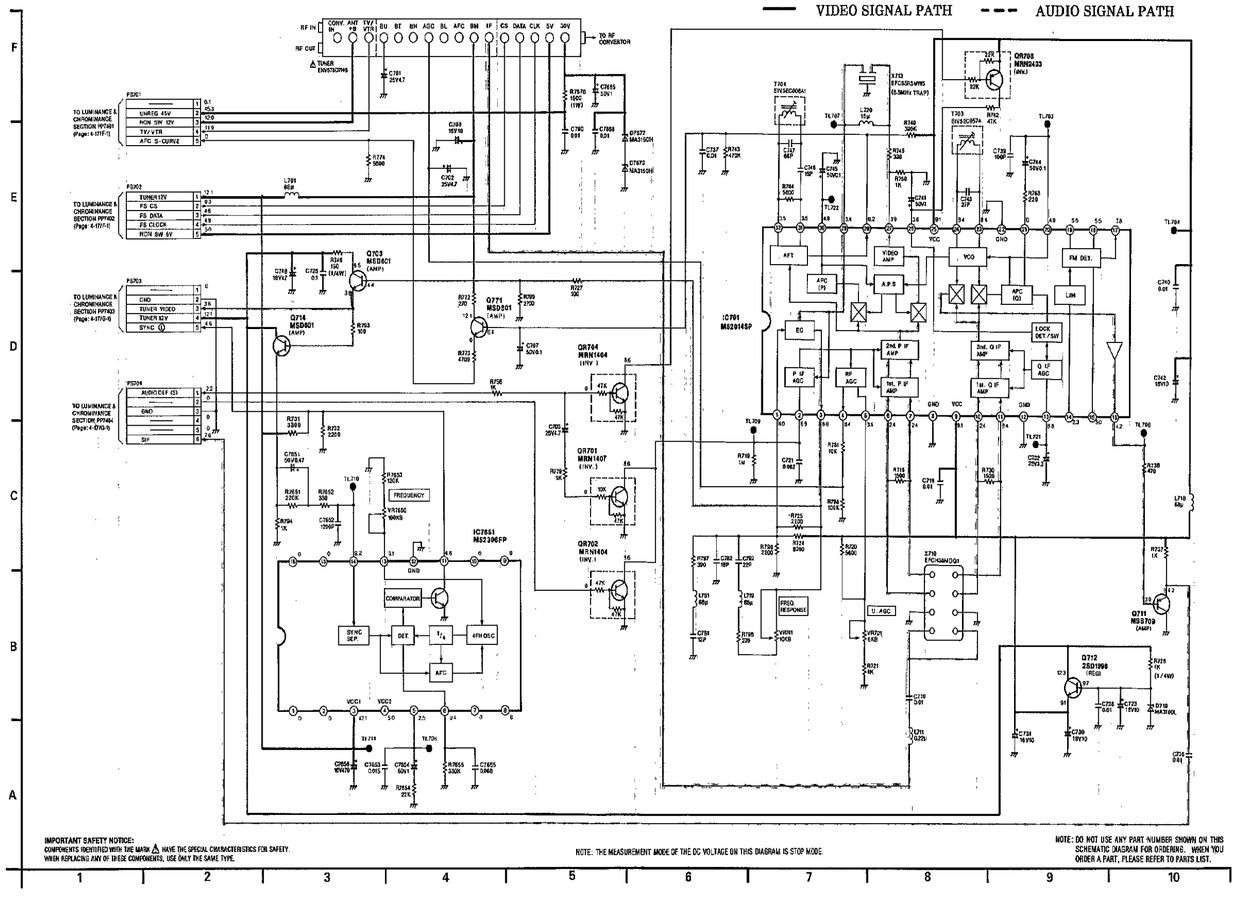
AFC DEFEAT C.B.A. (VEP07786A: NV-HS800B)



TV DEMODULATOR PACK C.B.A. (VEP07680K: NV-HS800B)



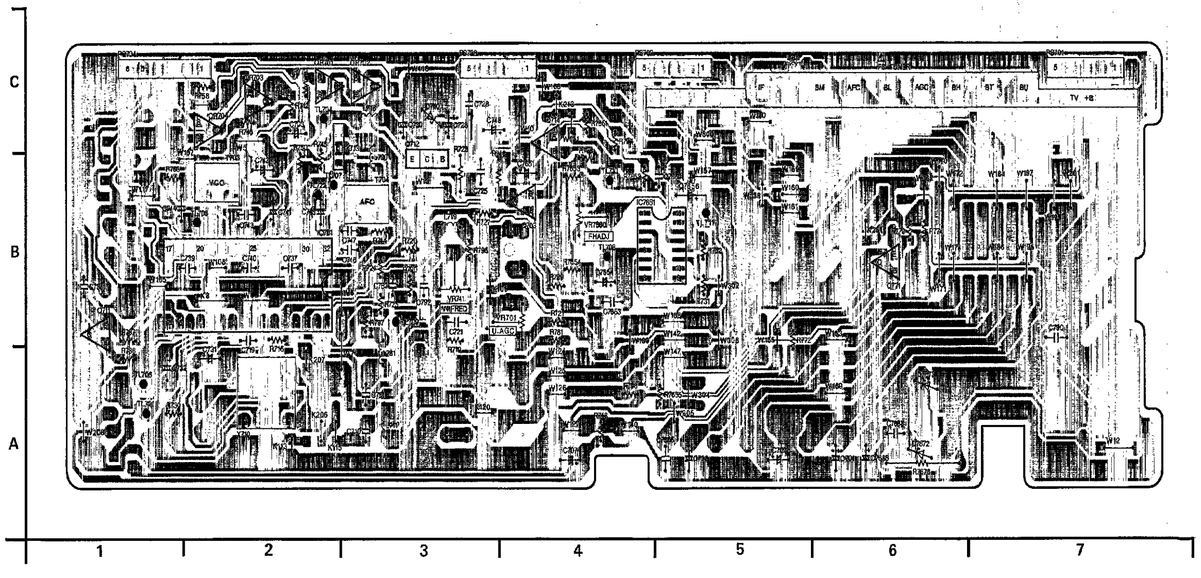
4-23. TV DEMODULATOR PACK SCHEMATIC DIAGRAM (NV-HS800EC)


VIDEO SIGNAL PATH
AUDIO SIGNAL PATH
IC701 M52014SP
IC7651 M52396FP
Q703 MSB01 (AMP)
Q711 MSD709 (AMP)
Q712 2SD1998 (RGB)
Q714 MSD401 (AMP)
QR701 MRN1407 (INV.)
QR702 MRN1404 (INV.)
QR703 MRN2433 (INV.)
QR704 MRN1404 (INV.)
FREQUENCY
COMPARATOR
SYNC SEP
DET
AFC
4FH OSC
VCO
AFT
FM DET.
LIMITER
EQ
P IF AGC
RF AGC
1st. P IF AMP
2nd. P IF AMP
1st. Q IF AMP
2nd. Q IF AMP
Q IF AGC
LOCK DET / SIF
VIDEO AMP
APC 1FS
APC 1QS
A P S
FREQ RESPONSE
V. AGC
TO LUMINANCE & CHROMINANCE SECTION PP7403 (Page: 4-07/F-1)
TO LUMINANCE & CHROMINANCE SECTION PP7402 (Page: 4-07/F-1)
TO LUMINANCE & CHROMINANCE SECTION PP7403 (Page: 4-07/G-5)
TO LUMINANCE & CHROMINANCE SECTION PP7404 (Page: 4-07/G-5)
TO RF CONVERTOR
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

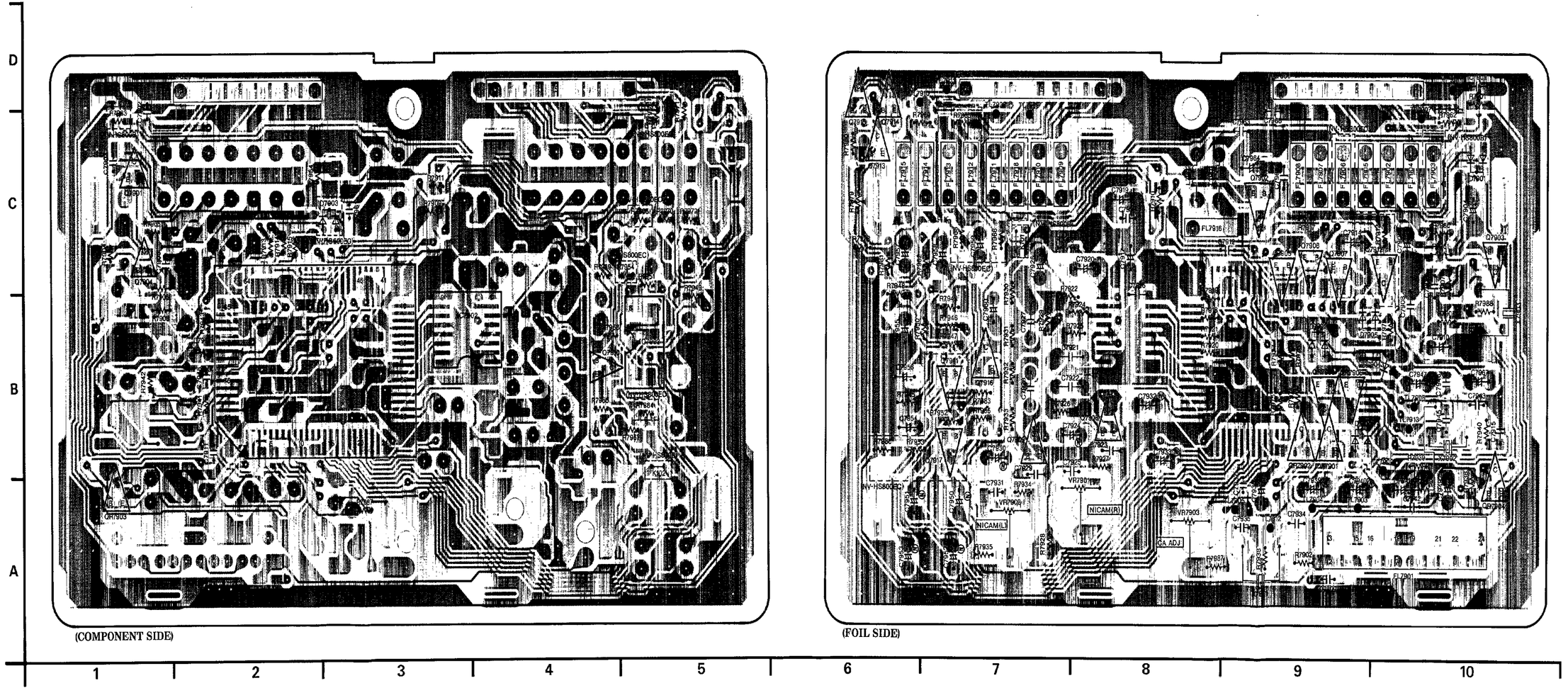
4-24. TV DEMODULATOR PACK C.B.A. (VEP07757C: NV-HS800EC)

TV DEMODULATOR PACK C.B.A.			
Transistor		**Adjustment**	
Q703	B-4	T703	B-2
Q711	B-1	T704	B-3
Q712	B-3	VR701	B-4
Q714	C-4	VR741	B-3
Q771	B-8	VR7680	B-4
Transistor & Resistor		**Connector**	
QR701	C-2	PS701	C-7
QR702	C-3	PS702	C-5
QR703	C-2	PS703	C-3
QR704	C-2	PS704	C-1
Integrated Circuit			
IC701	B-2		
IC7651	B-4		

ADDRESS INFORMATION



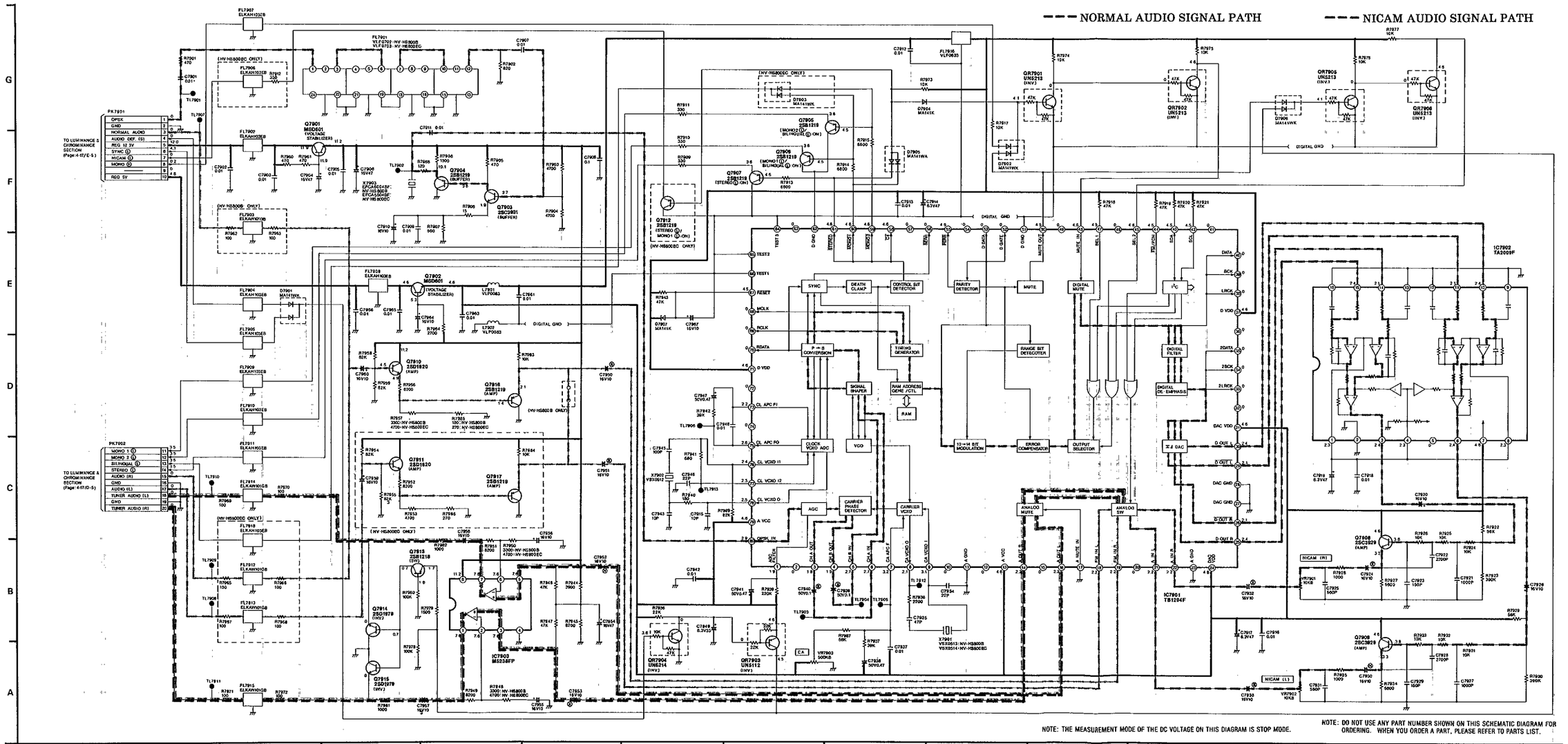
4-25. NICAM DECODER PACK C.B.A. (VEP07675A: NV-HS800B) (VEP07675D: NV-HS800EC)



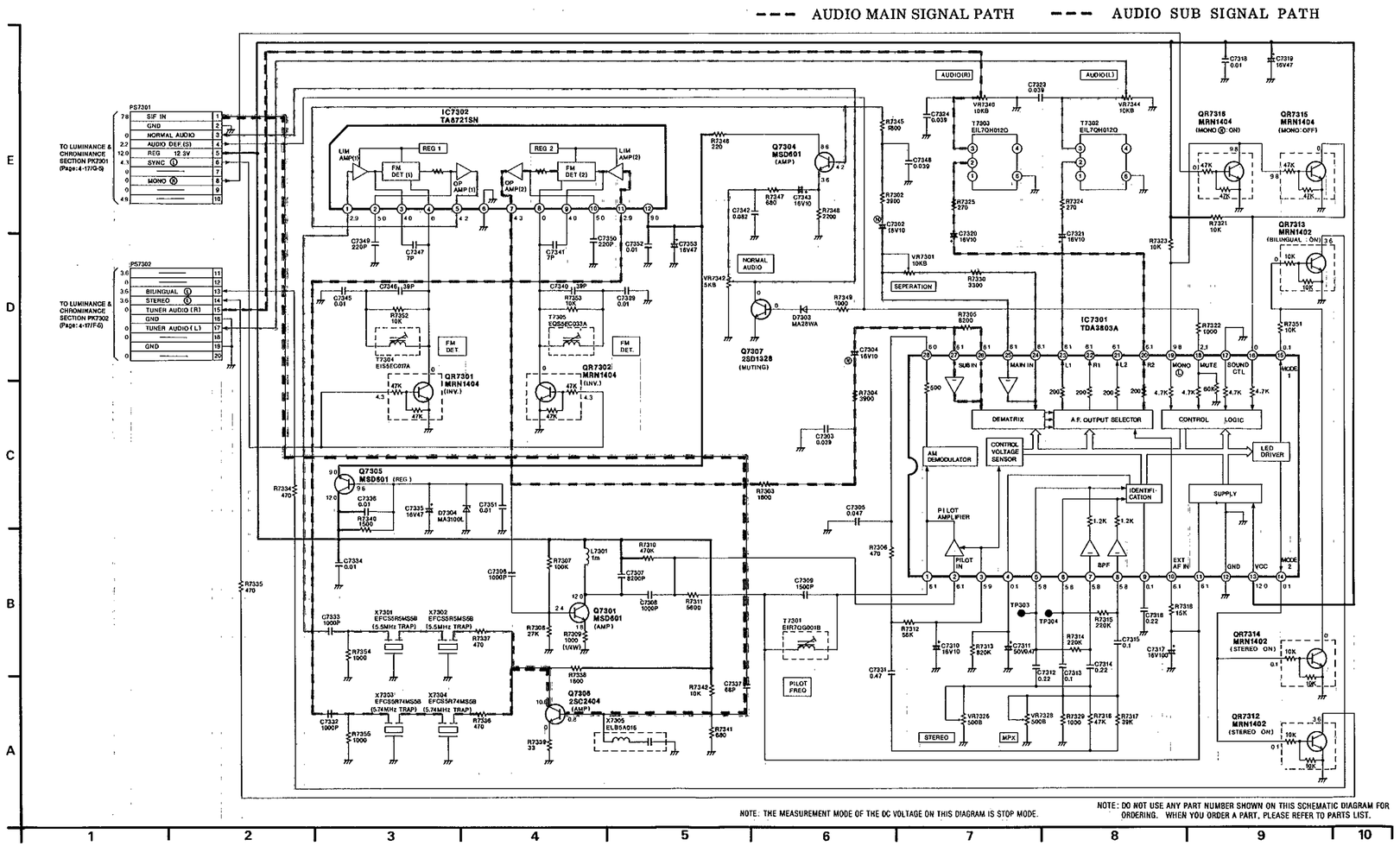
NICAM DECODER PACK C.B.A.	
Transistor	
Q7901	C-1
Q7902	C-9
Q7903	C-10
Q7904	C-1
Q7905	C-9
Q7906	C-9
Q7907	C-8
Q7908	B-8
Q7909	B-7
Q7910	B-4
Q7911	B-7
Q7912	C-10
Q7913	C-6
Q7914	D-6
Q7915	D-6
Q7916	B-7
Q7917	B-7
Transistor & Resistor	
QR7901	B-5
QR7902	B-3
QR7903	A-1
QR7904	A-10
QR7905	B-8
QR7906	B-8
Integrated Circuit	
IC7901	B-2
IC7902	B-3
IC7903	B-5
Adjustment	
VR7901	A-8
VR7902	A-7
VR7903	A-8
Connector	
PK7901	D-2
PK7901	D-9
PK7902	D-4
PK7902	D-7

ADDRESS INFORMATION

4-26. NICAM DECODER PACK SCHEMATIC DIAGRAM


NORMAL AUDIO SIGNAL PATH
NICAM AUDIO SIGNAL PATH
NOTE: THE MEASUREMENT MODE OF THE DC VOLTAGE ON THIS DIAGRAM IS STOP MODE.
NOTE: DO NOT USE ANY PART NUMBER SHOWN ON THIS SCHEMATIC DIAGRAM FOR ORDERING. WHEN YOU ORDER A PART, PLEASE REFER TO PARTS LIST.

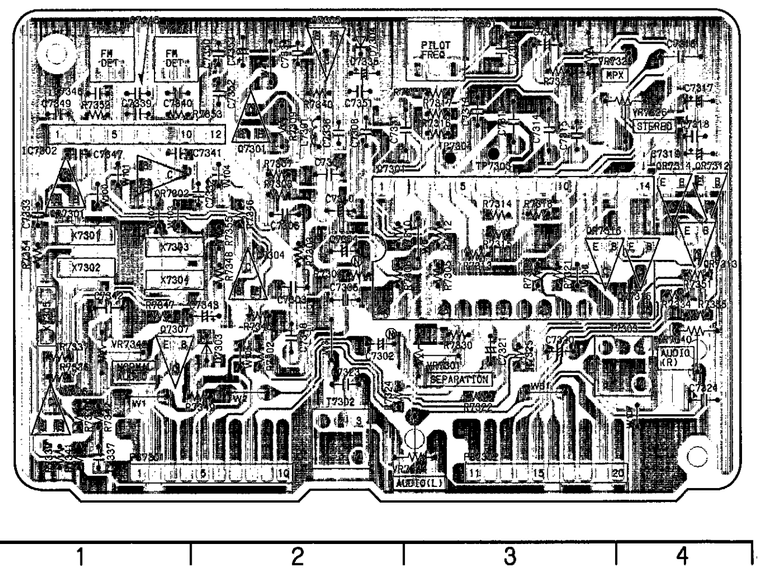
4-27. DECODER PACK SCHEMATIC DIAGRAM (NV-HS800EC)



4-28. DECODER PACK C.B.A. (VEP07671A: NV-HS800EC)

DECODER PACK C.B.A.			
Transistor		**Test Point**	
Q7301	B-2	TP7303	B-3
Q7304	B-2	TP7304	B-3
Q7305	C-2	**Adjustment**	
Q7306	A-1	T7301	C-3
Q7307	A-1	T7302	A-2
Transistor & Resistor		T7303	A-4
QR7301	B-1	T7304	C-1
QR7302	B-1	T7305	C-1
QR7312	B-4	VR7301	A-3
QR7313	B-4	VR7326	C-4
QR7314	B-4	VR7328	C-3
QR7315	B-4	VR7340	A-4
QR7316	B-3	VR7342	A-1
Integrated Circuit		VR7344	A-3
IC7301	B-3	**Connector**	
IC7302	B-1	PS7301	A-1
		PS7302	A-3

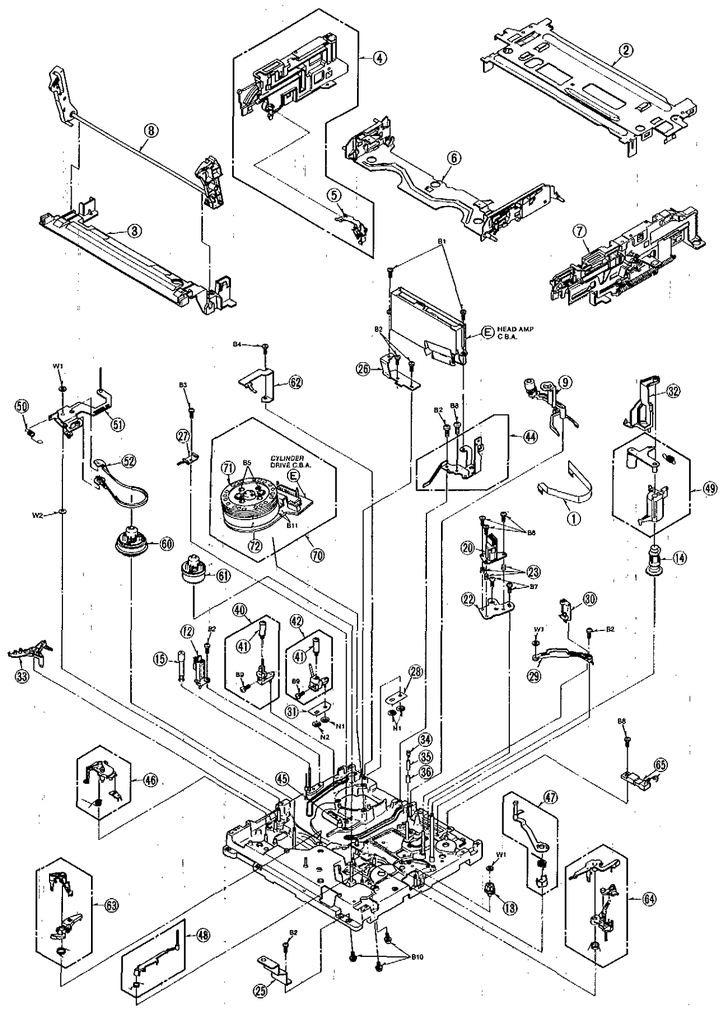
ADDRESS INFORMATION



SECTION 5
EXPLODED VIEWS & PARTS LIST

5-1. EXPLODED VIEW & MECHANICAL REPLACEMENT PARTS LIST

❶ CHASSIS PARTS SECTION (1)



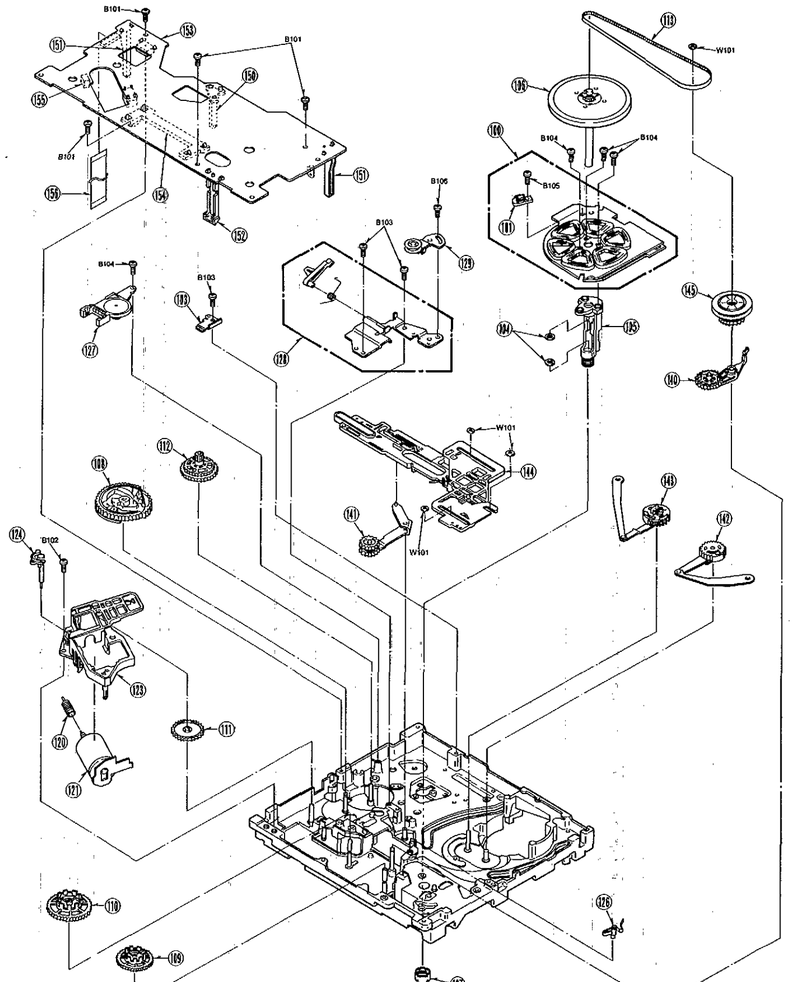
Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark ⟨!⟩ have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
**********		NV-HS800B/EC			
1(1)		VWJ0617	FLEXIBLE CABLE (6P)	1	P4003-P1501
2(1)		VMA8644	TOP PLATE	1	
3(1)		VMA8787	CASSETTE GUIDE	1	
4(1)		VXA4560	SIDE PLATE (L) UNIT	1	
5(1)		VML2902	OPENER LEVER UNIT	1	
6(1)		VXA4561	CASSETTE HOLDER PLATE UNIT	1	
7(1)		VXA4806	SIDE PLATE (R) UNIT	1	
8(1)		VXP1339	MAIN SHAFT UNIT	1	
9(1)		VXL2440	CLEANER ARM UNIT	1	
12(1)		VBS0050	FE HEAD	1	
13(1)		VDG0871	CARRIAGE CONNECTION GEAR	1	
14(1)		VDG0886	PINCH CAM GEAR	1	
15(1)		VXP1402	IMPEDANCE ROLLER UNIT	1	
20(1)		VED0205	A/C HEAD (1) UNIT	1	
22(1)		VMA8624	A/C HEAD BASE	1	
23(1)		VMB2515	A/C HEAD SPRING	3	
25(1)		VMA8761	MOUNT ANGLE	1	
26(1)		VMA9158	HEAD AMP MOUNT ANGLE (L)	1	
27(1)		VMK0917	EARTH SPRING	1	
28(1)		VMA8874	INCLIND BASE HOLDER (S)	1	
29(1)		VMD2078	P5 STOPPER BASE	1	
30(1)		VXA4927	P5 POST STOPPER	1	
31(1)		VMA8873	INCLIND BASE HOLDER (T)	1	
32(1)		VMD2101	OPENER PIECE	1	
33(1)		VML2776	TENSION SPRING ARM	1	
34(1)		VMX1544	P4 UPPER LIMITER	1	
35(1)		VMK2175	P4 SLEEVE	1	
36(1)		VMK2176	P4 LOWER LIMITER	1	
40(1)		VXA5245KIT	INCLINED BASE (S) UNIT	1	OR VXA4982KIT
41(1)		VXP1415	ROLLER POST	2	
42(1)		VXA5247KIT	INCLINED BASE (T) UNIT	1	OR VXA4984KIT
44(1)		VXA4974	HEAD AMP MOUNT ANGLE (R) U.	1	
45(1)		VMS5383	CASSETTE POSITION FIXTURE	1	
46(1)		VXL2310	REVIEW ARM UNIT	1	
47(1)		VXL2306	P5 ARM UNIT	1	
48(1)		VXL2394	TAKE UP TENSION REGULATOR ARM UNIT	1	
49(1)		VXL2246	PINCH ARM UNIT	1	
50(1)		VMB2434	TENSION SPRING	1	
51(1)		VXL2309	TENSION ARM (1) UNIT	1	
52(1)		VXZ0310	TENSION BAND UNIT	1	
60(1)		VXR0221	SUPPLY REEL TABLE UNIT	1	
61(1)		VXR0222	TAKE UP REEL TABLE UNIT	1	
62(1)		VXS0113	EARTH PLATE	1	
63(1)		VXZ0312	SUPPLY BRAKE ARM UNIT	1	
64(1)		VXZ0313	TAKE UP BRAKE ARM UNIT	1	
65(1)		2SB941PSW	POWER TRANSISTOR	1	
70(1)		VEG1133	CYLINDER UNIT	1	
71(1)		VEH0651	UPPER CYLINDER UNIT	1	
72(1)		VSC3940	CYLINDER SHIELD PLATE	1	
B1(1)		VHD0773	SCREW	2	
B2(1)		XTV26+6F	SCREW	6	
B3(1)		XTV26+4F	SCREW	1	
B4(1)		XTN3+6FFZ	SCREW	1	
B5(1)		VHD0553	SCREW	2	
B6(1)		VHD0762	SCREW	3	
B7(1)		XTV26+6FZ	SCREW	2	
B8(1)		XTV26+8F	SCREW	2	
B9(1)		XQN2+AJ4	SCREW	2	
B10(1)		VHD0342	SCREW	3	
B11(1)		XYNV0029	SCREW	2	
N1(1)		VNN0192	NUT	3	
N2(1)		VNN0193	NUT	1	
W1(1)		VMK2208	WASHER	3	
W2(1)		XWCV26D5C	WASHER	1	

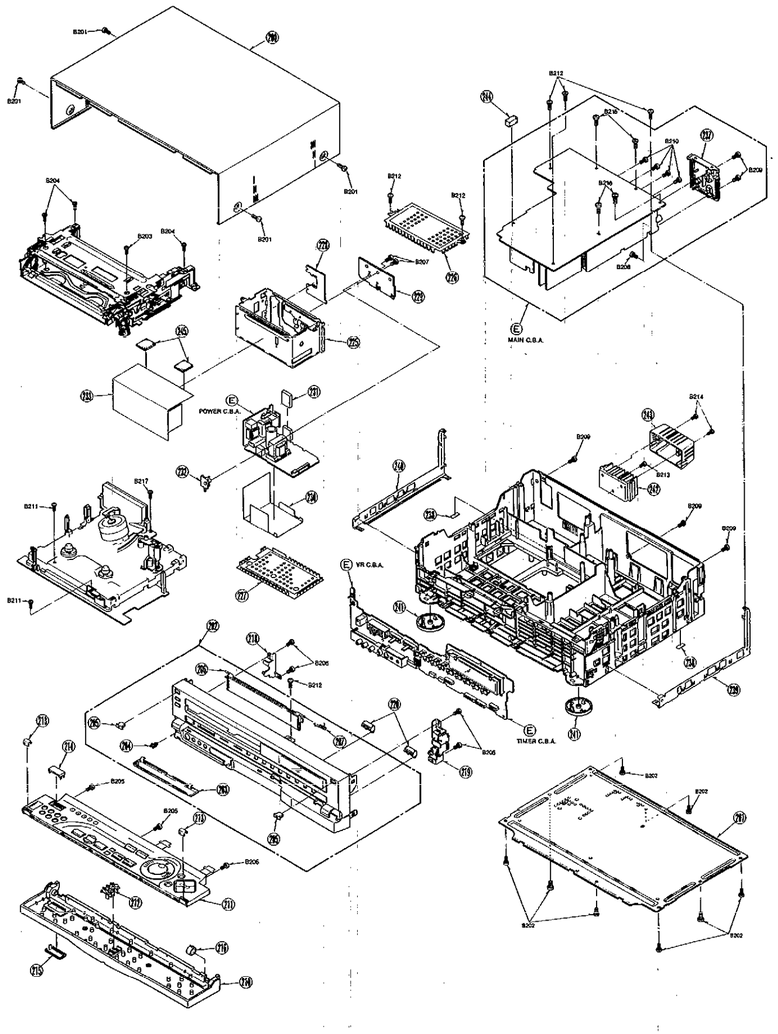
Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark ⟨!⟩ have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
100(2)		VEK5927	STATOR UNIT	1	
101(2)		VBK0061	FG HEAD	1	
103(2)		VMA8930	ROTOR STOPPER	1	
104(2)		VMX1927	OIL SEAL	2	
105(2)		VXD0140	HOUSING UNIT	1	
106(2)		VXP1519	ROTOR UNIT	1	
107(2)		VXQ0297	THRUST SCREW UNIT	1	
108(2)		VDG0913	MAIN CAM GEAR	1	
109(2)		VDG0956	SUPPLY REEL GEAR	1	
110(2)		VDG0957	TAKE UP REEL GEAR	1	
111(2)		VDG0868	WORM WHEEL GEAR	1	
112(2)		VDG0885	SUB CAM GEAR	1	
113(2)		VDV0235	TIMING BELT	1	
120(2)		VDG0866	WORM GEAR	1	
121(2)		VEP0427	LOADING MOTOR (1) UNIT	1	
123(2)		VMD1942	MOTOR BRACKET	1	
124(2)		VMD2153	S-VHS SW ACTUATER	1	
126(2)		VML2725	IDLER CONTROL LEVER	1	
127(2)		VSP0365	MODE SW	1	
128(2)		VXA5138	SS BRAKE BASE UNIT	1	
129(2)		VXA4799	TENSION ROLLER UNIT	1	
140(2)		VXL2378	IDLER ARM UNIT	1	
141(2)		VXL2372	DIRECT LEVER UNIT	1	
142(2)		VXL2299	SUPPLY LOADING ARM UNIT	1	
143(2)		VXL2300	TAKE UP LOADING ARM UNIT	1	
144(2)		VXL2307	MAIN LEVER UNIT	1	
145(2)		VXP1409	CENTRE CLUTCH	1	
150(2)		VMD1926	LED HOLDER	1	
151(2)		VMD1927	PHOTO TRANSISTOR HOLDER	2	
152(2)		VES0695	SAFETY TAB SW	1	
153(2)		VJS00787	MECHANISM CONNECTION C.B.	1	ELECTRICAL PARTS ON
154(2)		VMD2029	REEL SHAFT GUIDE	1	
155(2)		VST0176	S-VHS CASSETTE SW	1	
156(2)		VWJ0777	FLEXIBLE CABLE (14P)	1	(P6001-P1505)
B101(2)		VHD0772	SCREW	4	
B102(2)		XTV26+8F	SCREW	1	
B103(2)		XTV26+6F	SCREW	3	
B104(2)		VHD0753	SCREW	4	
B105(2)		VHD0754	SCREW	1	
B106(2)		XSB26+4FZ	SCREW	1	
W101(2)		VMK2208	WASHER	4	

❷ CHASSIS PARTS SECTION (2)



❸ CASING PARTS SECTION



Note:1.* Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE
Components identified with the mark ⟨!⟩ have the special characteristics for safety. When replacing any of these components,use only the same type.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
200(3)		WGH1032	TOP PANEL	1	
201(3)		WKU0387	BOTTOM PLATE	1	
202(3)		WYF5736	FRONT PANEL (1) UNIT	1	NV-HS800B
202(3)		WYF5738	FRONT PANEL (1) UNIT	1	NV-HS800EC
203(3)		WYF2126	SUB DOOR UNIT	1	
204(3)		WQQ0550	DOOR LOCK PIECE	1	
205(3)		WQQ2216	DOOR MAGNET	2	
206(3)		WKF2118	BLINDER PANEL	1	
207(3)		WMB2521	BLINDER SPRING	1	
210(3)		WYC0641	DOOR PANEL (1) UNIT	1	NV-HS800B
210(3)		WYC0642	DOOR PANEL (1) UNIT	1	NV-HS800EC
211(3)		ESU19556D	DOOR PANEL SW UNIT	1	NV-HS800B
211(3)		ESU19556E	DOOR PANEL SW UNIT	1	NV-HS800EC
212(3)		WGL0578	DOOR PANEL LIGHT	1	
213(3)		WMP4182	MAGNET ANGLE	2	
214(3)		WKW1333	IR WINDOW (INSIDE)	1	
215(3)		WKW1827	IR WINDOW (OUTSIDE)	1	
216(3)		WDG0954	DOOR GEAR	1	
218(3)		WXA5132	DOOR ANGLE (L) UNIT	1	
219(3)		WXA5130	DOOR ANGLE (R) UNIT	1	
220(3)		WQQ2807	FLEXIBLE CABLE HOLDER	2	
225(3)		WXA5129	POWER SHIELD PLATE (MAIN)U.	1	
226(3)		WSC2621	POWER SHIELD PLATE (TOP)	1	
227(3)		WSC2622	POWER SHIELD PLATE (BOTTOM)	1	
228(3)		WMP4183	INLET ANGLE	1	
229(3)		WSG3938	HEAT SINK (P)	1	
230(3)		WMZ2207	POWER BARRIER	1	⟨!⟩
231(3)		WMZ2208	INSULATION CAP	1	⟨!⟩
232(3)		WQQ3401	IC HOLDER	1	
233(3)		WMZ2257	SHIELD BARRIER	1	
237(3)		WJH0684	RF ANT TERMINAL PLATE	1	NV-HS800B
237(3)		WJH0683	RF ANT TERMINAL PLATE	1	NV-HS800EC
238(3)		WXA0122	FOOT	2	
239(3)		WMP4178	SIDE ANGLE (R)	1	
240(3)		WMP4179	SIDE ANGLE (L)	1	
241(3)		WXA0165	LEG	2	
242(3)		WSC2623	HEAT SINK (O)	1	
243(3)		WKF1150	HEAT SINK COVER	1	
244(3)		WMT0199	C.B.A. SPACER	1	
245(3)		WMT0547	POWER CUSHION	2	
B201(3)		XTW3+10TEZ	SCREW	4	
B202(3)		WHD0059	SCREW	6	
B203(3)		XTV26+10P	SCREW	1	
B204(3)		XTV26+8FR	SCREW	3	
B205(3)		XTN26+8GEZ	SCREW	3	
B206(3)		XTV3+8G	SCREW	4	
B207(3)		XTS3+8J	SCREW	2	
B208(3)		XTV3+6F	SCREW	1	
B209(3)		XTV3+12JFZ	SCREW	5	
B210(3)		XTV3+8GFZ	SCREW	4	
B211(3)		WHD0168	SCREW	2	
B212(3)		WHD0773	SCREW	6	
B213(3)		XYC3+FP12FR	SCREW	1	
B214(3)		XTV3+14K2	SCREW	2	
B215(3)		XTV3+10J	SCREW	2	
B216(3)		XTV3+8J	SCREW	2	
B217(3)		WHD0839	SCREW	1	

Note:1.* Be sure to make your orders of replacement parts according to this list.
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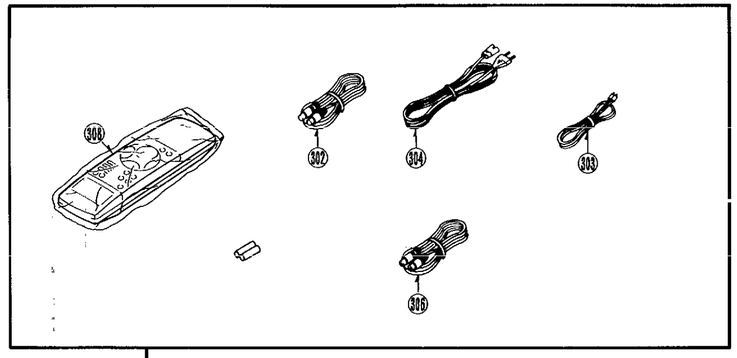
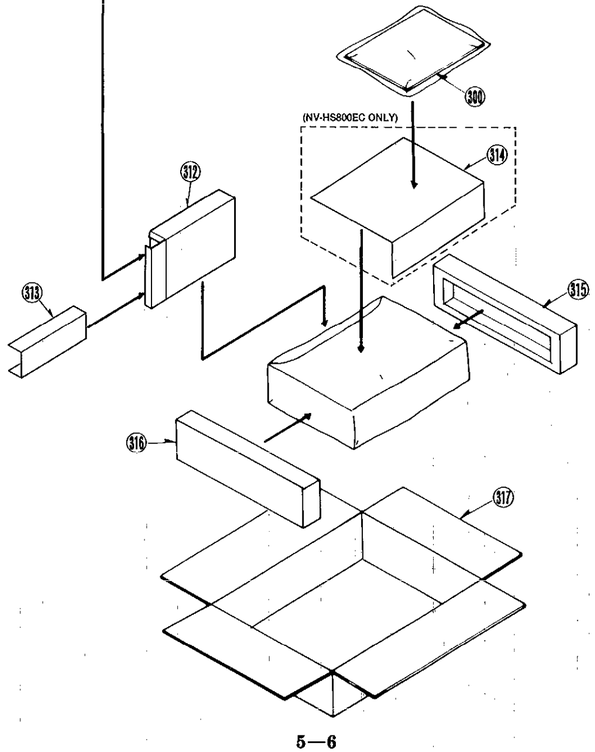
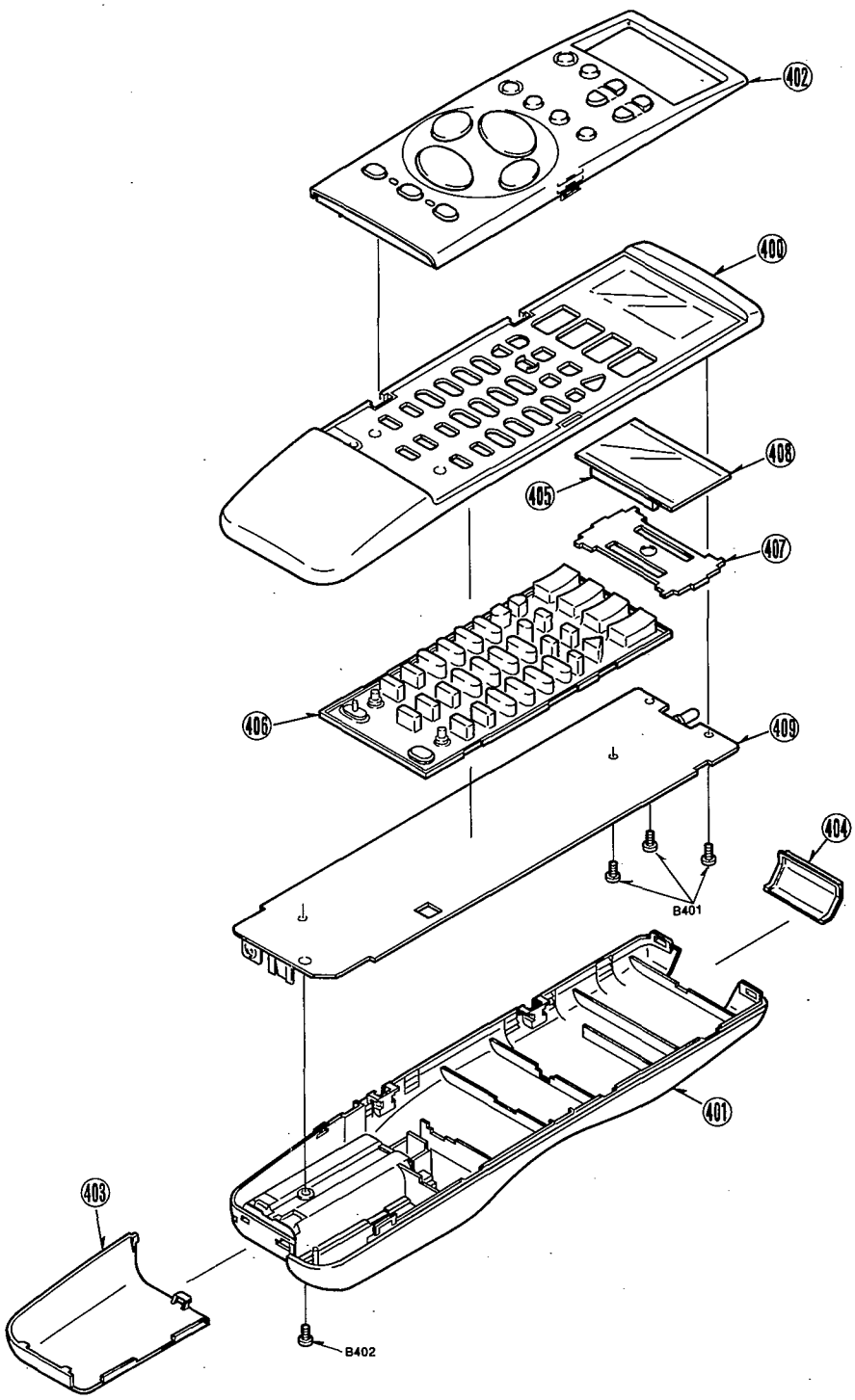
Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
300(4)		VQT5464	OPERATING INSTRUCTIONS (ENGLISH)	1	⟨!⟩NV-HS800B
300(4)		VQT5465	OPERATING INSTRUCTIONS (ENGLISH/SPANISH)	1	⟨!⟩NV-HS800EC
300(4)		VQT5466	OPERATING INSTRUCTIONS (FRENCH/DUTCH)	1	⟨!⟩NV-HS800EC
300(4)		VQT5467	OPERATING INSTRUCTIONS (SWEDISH/DANISH)	1	⟨!⟩NV-HS800EC
300(4)		VQT5468	OPERATING INSTRUCTIONS (FINNISH)	1	⟨!⟩NV-HS800EC
302(4)		VJA0376	DIN RF CABLE	1	
303(4)		VJA0231	AUDIO CABLE	1	
304(4)		VJA0733	AC CORD	1	⟨!⟩NV-HS800B
304(4)		VJA0664	AC CORD	1	⟨!⟩NV-HS800EC
306(4)		VJA0748	S-VIDEO 4P CABLE	1	
308(4)		VEQ1565	REMOTE CONTROLLER	1	NV-HS800B
308(4)		VEQ1562	REMOTE CONTROLLER	1	NV-HS800EC
312(4)		VFK0834	ACCESSORIES PACKING	1	
313(4)		VFN3773	ACCESSORIES PAD	1	
314(4)		VFN3779	UPPER PAD	1	NV-HS800EC
315(4)		VFN3763	CUSHION (R)	1	
316(4)		VFN3764	CUSHION (L)	1	
317(4)		VPG7195	PACKING	1	NV-HS800B
317(4)		VPG7196	PACKING	1	NV-HS800EC
			SERVICE FIXTURES & TOOLS		
		VFJ8125H3F	VHS ALIGNMENT TAPE(PAL)	1	
		VFK0335	RETAINING RING REMOVER (3mm/4mm)	1	
		VFK0329	POST ADJUSTMENT SCREWDRIVER	1	
		VFK0326	HEX WRENCH SET	1	
		VFK0132	BACK TENSION METER	1	
		VFK27	HEAD CLEANING STICK	1	
		MOR265	MORLYTONE GREASE	1	
		VFK0341	UPPER CYLINDER REMOVER	1	
		VFK0680	WHITE GREASE	1	
		VFK0651	CENTRE FIXING TOOL	1	
		VFK0330	FINE ADJUSTMENT GEAR DRIVER	1	
		VFK0678	18P EXTENSION CABLE	2	
		VFK0764	10P EXTENSION CABLE	1	
		VFK0918	17P EXTENSION CABLE	1	
		VFK0937	9P EXTENSION CABLE	1	
		VFK0938	12P EXTENSION CABLE	2	
		VFK0939	13P EXTENSION CABLE	1	
		VFK0940	14P EXTENSION CABLE	1	
		VFK0890	6P EXTENSION CABLE	1	
		VFK0944	5P EXTENSION CABLE	3	

❹ PACKING PARTS SECTION





❺ REMOTE CONTROLLER UNIT



Note:1.* Be sure to make your orders of replacement parts according to this list.
2. IMPORTANT SAFETY NOTICE
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Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
400(5)		VYK5984	TOP COVER UNIT	1	NV-HS800B
400(5)		VYK5654	TOP COVER UNIT	1	NV-HS800EC
401(5)		VYK5446	BOTTOM COVER UNIT	1	
402(5)		VYK6136	DOOR PANEL UNIT	1	NV-HS800B
402(5)		VYK5725	DOOR PANEL UNIT	1	NV-HS800EC
403(5)		VKF2115	BATTERY COVER	1	
404(5)		VKW1802	IR WINDOW	1	
405(5)		VSQ0830	CONDUCTIVE RUBBER	2	
406(5)		VSP0781	RUBBER CONTACT	1	NV-HS800B
406(5)		VSP0772	RUBBER CONTACT	1	NV-HS800EC
407(5)		VSQ0829	LCD SPACER	1	
408(5)		VSL0327	LCD	1	NV-HS800B
408(5)		VSL0319A	LCD	1	NV-HS800EC
409(5)		----------	REMOTE CONTROLLER C.B.A.	1	THE C.B.A. IS NOT SUPPLIED AS SPARE PART.
B401(5)		XTB2+6G	SCREW	3	
B402(5)		XTB2+8GFZ	SCREW	1	

5-2. ELECTRICAL REPLACEMENT PARTS LIST

Note:1.Be sure to make your orders of replacement parts according to this list.
2.IMPORTANT SAFETY NOTICE : Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components,use only the same type.
3.Unless otherwise specified,
All resistors are in OHMS , K=1,000 OHMS. All capacitors are in MICRO-FARADS(uf),P=uuF.
4.The P.C.Board units marked width'■'show below the main assembled parts.
5.The marking(RTL) indicates the retention time is limited for this item. After the discontinuation of this assembly in production, it will no longer be available.

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
		VEP03A37F	MAIN C.B.A.	1	(RTL)NV-HS800B
			(Page:5-9)		INCLUDING THE TV
					DEMODULATOR PACK
					C.B.A.(VEP07680K),
					CAP DRIVE C.B.A.
					(VEP02412B),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03A61F),
					SUB LUMINANCE &
					CHROMINACE PACK
					C.B.A.(VEP03A62C),
					INPUT/OUTPUT PACK
					C.B.A.(VEP03A72D),
					SUB AUDIO PACK
					C.B.A.(VEP04417C),
					Hi-Fi AUDIO PACK
					C.B.A.(VEP04447E),
					NICAM DECODER PACK
					C.B.A.(VEP07675A).
		VEP07680K	TV DEMODULATOR PACK C.B.A.	1	(RTL)NV-HS800B
					INCLUDED IN MAIN
					C.B.A.(VEP03A37F).
					INCLUDING THE
					AFC DEF C.B.A.
					(VEP07786A).
		VEP07786A	AFC DEF C.B.A.	1	(RTL)NV-HS800B
					INCLUDED IN TV
					DEMODULATOR PACK
					C.B.A.(VEP07680K).
		VEP02412B	CAP DRIVE C.B.A.	1	(RTL)NV-HS800B
					INCLUDED IN MAIN
					C.B.A.(VEP03A37F).
		VEP03A61F	LUMINANCE & CHROMINANCE	1	(RTL)NV-HS800B
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03A37F).
		VEP03A62C	SUB LUMINANCE & CHROMINANCE	1	(RTL)NV-HS800B
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03A37F).
					INCLUDING THE
					REC/RF AMP PACK
					C.B.A.(VEP03A90A).
		VEP03A90A	REC/RF AMP PACK C.B.A.	1	(RTL)NV-HS800B
					INCLUDED IN
					SUB LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03A62C).
		VEP03A72D	INPUT/OUTPUT PACK C.B.A.	1	(RTL)NV-HS800B
					INCLUDED IN MAIN
					C.B.A.(VEP03A37F).
		VEP04417C	SUB AUDIO PACK C.B.A.	1	(RTL)NV-HS800B
					INCLUDED IN MAIN
					C.B.A.(VEP03A37F).
		VEP04447E	Hi-Fi AUDIO PACK C.B.A.	1	(RTL)NV-HS800B
					INCLUDED IN MAIN

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
					C.B.A.(VEP03A37F).
		VEP07675A	NICAM DECODER PACK C.B.A.	1	(RTL)NV-HS800B
					INCLUDED IN MAIN
					C.B.A.(VEP03A37F).
		VEP03A37G	MAIN C.B.A.	1	(RTL)NV-HS800EC
			(Page:5-20)		INCLUDING THE
					TV DEMODULATOR PACK
					C.B.A.(VEP07757C),
					CAP DRIVE C.B.A.
					(VEP02412B),
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03A61D),
					SUB LUMINANCE &
					CHROMIANCE PACK
					C.B.A.(VEP03A62B),
					SUB AUDIO PACK
					C.B.A.(VEP04417B),
					INPUT/OUTPUT PACK
					C.B.A.(VEP03A72B),
					Hi-Fi AUDIO PACK
					C.B.A.(VEP04447E),
					DECODER PACK C.B.A.
					(VEP07671A),
					NICAM DECODER PACK
					C.B.A.(VEP07675D).
		VEP07757C	TV DEMODULATOR PACK C.B.A.	1	(RTL)NV-HS800EC
					INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
		VEP02412B	CAP DRIVE C.B.A.	1	(RTL)NV-HS800EC
					INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
		VEP03A61D	LUMINANCE & CHROMINANCE	1	(RTL)NV-HS800EC
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
		VEP03A62B	SUB LUMINANCE & CHROMINANCE	1	(RTL)NV-HS800EC
			PACK C.B.A.		INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
					INCLUDING THE
					REC/RF AMP C.B.A.
					(VEP03A90A).
		VEP03A90A	REC/RF AMP C.B.A.	1	(RTL)NV-HS800EC
					INCLUDED IN SUB
					LUMINANCE &
					CHROMINANCE PACK
					C.B.A.(VEP03A62B).
		VEP03A72B	INPUT/OUTPUT PACK C.B.A.	1	(RTL)NV-HS800EC
					INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
		VEP04417B	SUB AUDIO PACK C.B.A.	1	(RTL)NV-HS800EC
					INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
		VEP04447E	Hi-Fi AUDIO PACK C.B.A.	1	(RTL)NV-HS800EC
					INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
		VEP07671A	DECODER PACK C.B.A.	1	(RTL)NV-HS800EC
					INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
		VEP07675D	NICAM DECODER PACK C.B.A.	1	(RTL)NV-HS800EC
					INCLUDED IN MAIN
					C.B.A.(VEP03A37G).
		VEP05176G	HEAD AMP C.B.A.	1	(RTL)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			(Page:5-31)		
		VEP06926C	VR C.B.A.	1	(RTL)
			(Page:5-32)		
		VEP07739J	TIMER C.B.A.	1	(RTL)NV-HS800B
			(Page:5-32)		
		VEP07739K	TIMER C.B.A.	1	(RTL)NV-HS800EC
			(Page:5-33)		
		VEP01558C	POWER C.B.A.	1	(RTL)<!>
			(Page:5-34)		
		VEX0126	CYLINDER DRIVE C.B.A.	1	(RTL)
			(Page:5-35)		
		----------	MECHANISM CONNECTION C.B.A.	1	NOT SUPPLIED AS
			(Page:5-35)		C.B.A.(C.B. IS
					LISTED ON MECHANICAL
					PARTS LIST)
		----------	MOTOR C.B.A.	1	C.B.A. IS INCLUDED
			(Page:5-35)		IN LOADING MOTOR (1)
					UNIT. (VEM0427)
		ENC17990	RF CONVERTER	1	<!>NV-HS800B
		ENC17984	RF CONVERTER	1	<!>NV-HS800EC
		ENV87837H3Y	TUNER	1	<!>NV-HS800B
		ENV578D7H6	TUNER	1	<!>NV-HS800EC
F1101		XBA2C16TH15	FUSE	1	<!>
	■	VEP03A37F	MAIN C.B.A.		(RTL)NV-HS800B
C301		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C303		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C305		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C306		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C309		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C310		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C311		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C312		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C313		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C315,16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C317		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C318		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C319		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C321,22		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C324		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C325,26		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C329		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C331		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C332,33		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C334		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C335		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C336		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C337		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C338		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C339		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C340		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C341		ECEA1CKA100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C342		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C343		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C344		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C345,46		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C348		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C349		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C350		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C351		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C701		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C702,03		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	2	
C706		ECUY1H104ZFG	C.CAPACITOT CH 50V 0.1U	1	
C708		ECEA1CK220	E.CAPACITOR 16V 22U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C719,20		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C721		ECQV1H823JM	P.CAPACITOR 50V 0.082U	1	
C723		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C725		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		VCEA1CAC100	E.CAPACITOR 16V 10U	1	
C732		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C735		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C736,37		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C739		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C742		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C743		ECUM1H270JSN	C.CAPACITOR CH 50V 27P	1	
C744,45		ECEA1HK0R1	E.CAPACITOR 50V 0.1U	2	
C746		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C747		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C748		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C749		ECEA1CPK100	E.CAPACITOR 16V 10U	1	
C760		ECQV1H563JM	P.CAPACITOR 50V 0.056U	1	
C761		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C782		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C802		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C803		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C804		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C805,06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C808		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C809		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C810		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C811-13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C814		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C818		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C819		ECQB1H332JZ	F.CAPACITOR 50V 3300P	1	
C820		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C821-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C824		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C825-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C828,29		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	2	
C830		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C831		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C832		ECQV1H154JM	P.CAPACITOR 50V 0.15U	1	
C833		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C834		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C835		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C836		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C1001		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C1002		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C1003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2005		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2006		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C2007		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2009		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2501-04		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C2505		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2506		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2507		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2508-10		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2511-14		VCUV1H333KBN	C.CAPACITOR 50V 0.033U	4	
C2515		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2516		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2517		ECAOJM221	E.CAPACITOR 6.3V 220U	1	
C2518		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2519,20		VCUV1H333KBN	C.CAPACITOR 50V 0.033U	2	
C2521		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2522		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2523		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2524,25		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2526		ECAOJM221	E.CAPACITOR 6.3V 220U	1	
C2527		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C2528		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2529		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2530		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2531		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C2532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2533		ECEAOJKA330	E.CAPACOTOR 6.3V 33U	1	
C2534,35		ERJ6GM20R00	M.RESISTOR CH 1/10W 0	2	
C3001		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3002		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3003-06		ECEA1HKA010	E.CAPACITOR 50V 1U	4	
C3007,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3009		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3010		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3011		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3012		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3013		ECAOJM331	E.CAPACITOR 6.3V 330U	1	
C3014		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3015		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3017-19		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C3022		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3023,24		ECEA1AKA330	E.CAPACITOR 10V 33U	2	
C3027,28		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3029		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3030		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3032		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3033		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3301		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3302		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3304-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3309		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3310		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3312-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3321		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3322		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3324		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3326		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3327,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3329		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3330		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3336		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3338		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3339		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3340		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3341		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3342		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3343		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3344		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3345		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3346		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3347		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3351,52		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3353		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3354		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3372		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3401		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3402		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3403-07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3408,09		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3421		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C3422		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3423		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3424		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3425		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3426		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3427		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3428		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3429		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3430		ECEAOJKA330	E.CAPACOTOR 6.3V 33U	1	
C3431		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3443		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3444		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3445		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3447		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3448		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3449		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3450,51		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3452		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3472		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3473		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3474		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3475-77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3501		ECAOJM471	E.CAPACITOR 6.3V 470U	1	
C3502		ECRHA030E54R	V.CAPACITOR	1	
C3503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3504		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C3505		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3506		ECQB1H682JZ	F.CAPACITOR 50V 6800P	1	
C3507		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3508		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3509		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C3510		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3511		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3513		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3514,15		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3516,17		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3518		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C3519		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3520		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3522		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3523		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3524		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3525-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3528		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3530		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3531		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3532		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3533		ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C3534		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3601		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3602		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3603		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3604		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3605		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3607		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3608		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3609		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3610		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3611		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3613		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3614		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3901-05		ECEA1CKA100	E.CAPACITOR 16V 10U	5	
C3906		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C3907		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3908		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3909,10		ECA1AM471	E.CAPACITOR 10V 470U	2	
C3911		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3912		ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
C3913		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3914		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3915		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3916		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3917		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3918		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3919		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3922		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3923		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3924		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3927		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4001,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4003,04		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4006		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4007		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4008		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4009		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4010		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4011,12		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	2	
C4501		ECQB1H152JZ	F.CAPACITOR 50V 1500P	1	
C4502		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504,05		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEAOJU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUM1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4552		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4594,95		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4598		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEAOJU470	E.CAPACITOR 6.3V 47U	1	
C4611		ECQB1H182JZ	F.CAPACITOR 50V 1800P	1	
C4613		ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C4616		ECUX1H102ZFV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA1CM22	E.CAPACITOR 10V 22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4618		ECQB1H822JZ	F.CAPACITOR 50V 8200P	1	
C4621		ECEAOJU101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	
C4636		ECUX1H471JV	C.CAPACITOR CH 50V 470P	1	
C4638		ECQB1H822JZ	F.CAPACITOR 50V 8200P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C4701		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4702		ECQP1222JZ	P.CAPACITOR 100V 2200P	1	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4705		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4706		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4708		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4709		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4711,12		ECEA1AKA220	E.CAPACITOR 10V 22U	2	
C4713		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C4714		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4901,02		ECQB1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4903,04		ECQB1H332JZ	F.CAPACITOR 50V 3300P	2	
C4905,06		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4907,08		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4909,10		ECQB1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4911,12		ECQB1H332JZ	F.CAPACITOR 50V 3300P	2	
C4913,14		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4915,16		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4917,18		ECQB1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4919,20		ECQB1H332JZ	F.CAPACITOR 50V 3300P	2	
C4923,24		VCEAOJAC101	E.CAPASITOR 6.3V 100U	2	
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECEAOJKA330	E.CAPACITOR 6.3V 33U	1	
C6003		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C6004		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6005		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C6006		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6007,08		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C6009		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6010		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6011		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6012		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C6014		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6015		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6016,17		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	2	
C6018		ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C6019		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C6020		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6021		ECEA16M10	E.CAPACITOR 16V 1U	1	
C6022		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6023		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6024		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C6025		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6026		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6027		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C6028		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6029		ECEAOJKA221	E.CAPACITOR 6.3V 220U	1	
C6030		EECS5R5T224N	E.CAPACITOR 5.5V 0.22U	1	
C6034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6035		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6036		ECEAOJKA330	E.CAPACITOR 6.3V 33U	1	
C6037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6038		ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C6040		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6041		ECEAOJKA101	E.CAPACITOR 6.3V 100U	1	
C6042		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C6043		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6045		ECEAOJKA470	E.CAPACITOR 6.3V 47U	1	
C6046		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6049		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6050,51		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6053-56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C6062		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6063		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C7201		ECEA1CK100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7202		ECQV1H474JM	P.CAPACITOR 50V 0.47U	1	
C7203		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C7401		ECA1CM471	E.CAPACITOR 16V 470	1	
C7402,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7404		ECA1CM101	E.CAPACITOR 16V 100U	1	
C7405,06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7407,08		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7409		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7410		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7651		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7653		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
C7654		ECQB1H103JH	P.CAPACITOR 50V 0.01U	1	
C7655,56		ECEA1HK010	E.CAPACITOR 50V 1U	2	
C7657		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7658		ECQP1H562JZ	P.CAPACITOR 50V 5600P	1	
C7659		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7661		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7662		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C7663		ECQV1H823JM	P.CAPACITOR 50V 0.082U	1	
C7664		ECQB1H273JH	P.CAPACITOR 50V 0.027U	1	
C7665,66		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7667		ECEA1HKA100	E.CAPACITOR 50V 10U	1	
C7670		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7675		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C7676,77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7680		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7681,82		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7901~03		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C7904		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7905		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7906		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7907		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7908		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7909		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7910		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7911~13		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C7914		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7915		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C7916		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7917		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7918		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7919		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7920		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7921		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7922		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7923		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C7924		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7925		ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C7926		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7927		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7928		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7929		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C7930		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7931		ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C7932,33		ECEA1CKN100	E.CAPACITOR 16V 10U	2	
C7934		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C7935		ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C7937		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7938		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7939,40		ECEA1HKN0R1	E.CAPACITOR 50V 0.1U	2	
C7941		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7942		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7943		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C7945		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C7946		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C7947		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7948		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7949		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C7950-53		ECEA1CKN100	E.CAPACITOR 16V 10U	4	
C7954		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7955-58		ECEA1CK100	E.CAPACITOR 16V 10U	4	
C7960		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7961		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7963		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7964		ECEA1CK100	E.CAPACITOR 16V 10U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7965,66		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C7967		ECEA1CK100	E.CAPACITOR 16V 10U	1	
D301		1SS283	DIODE	1	
D303		MA151WK	DIODE	1	
D305		1SS254	DIODE	1	
D306		MA723VT	DIODE	1	
D307		1SS254	DIODE	1	
D308,09		MA151WK	DIODE	2	
D710		MA3100L	DIODE	1	
D771		MA151WK	DIODE	1	
D772		MA165VT	DIODE	1	
D801-07		1SS254	DIODE	7	
D808		MA151WK	DIODE	1	
D1002		1SS254	DIODE	1	
D2001-05		1SS254	DIODE	5	
D2501-08		1SS254	DIODE	8	
D2510		1SS254	DIODE	1	
D3002		MA28W-A	DIODE	1	
D3003		1SS254	DIODE	1	
D3301		1SS254	DIODE	1	
D3302		MA151K	DIODE	1	
D3304		MA151K	DIODE	1	
D3403		MA723VT	DIODE	1	
D3408		1SS254	DIODE	1	
D3501		1SS254	DIODE	1	
D3502		MA153	DIODE	1	
D3504		MA151WK	DIODE	1	
D3901		1SS254	DIODE	1	
D3902		MA4130L	DIODE	1	
D3903		1SS254	DIODE	1	
D3904		MA151WK	DIODE	1	
D3906		MA151WA	DIODE	1	
D3908,09		1SS254	DIODE	2	
D4003		MA723VT	DIODE	1	
D4004		1SS254	DIODE	1	
D4501-04		MA141K	DIODE	4	
D4601,02		MA141K	DIODE	2	
D4701,02		1SS254	DIODE	2	
D6001		1SS254	DIODE	1	
D6002		MA723VT	DIODE	1	
D6003		1SS254	DIODE	1	
D6005		MA151WK	DIODE	1	
D6006		MA151WA	DIODE	1	
D6007		MA151WK	DIODE	1	
D6008		MA151WA	DIODE	1	
D6009		11EQS04	DIODE	1	
D6011,12		11EQS04	DIODE	2	
D6013		MA723VT	DIODE	1	
D6014		1SS254	DIODE	1	
D6015		MA723VT	DIODE	1	
D7202-04		1SS254	DIODE	3	
D7401		MA723VT	DIODE	1	
D7601		MA151WK	DIODE	1	
D7602		MA3082M	DIODE	1	
D7901,02		MA141WK	DIODE	2	
D7904		MA141K	DIODE	1	
D7905		MA141WA	DIODE	1	
D7906		MA141WK	DIODE	1	
D7907		MA141K	DIODE	1	
DL801		EFDUN124A13N	DELAY	1	
DL802		EFDVR645A45A	DELAY	1	
DL803		VLD0147	DELAY	1	
FL301		ELB4M022	FILTER	1	
FL302		VLF0639	FILTER	1	
FL801		VLF1079	FILTER	1	
FL3601		ELB4R031	FILTER	1	
FL3901		VLF1120	FILTER	1	
FL3902		VLF0765	FILTER	1	
FL7901		VLF0702	FILTER	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
FL7902		ELKAW103EB	FILTER	1	
FL7903		ELKAW101GB	COIL 100UH	1	
FL7904,05		ELKAW103EB	FILTER	2	
FL7907-11		ELKAW103EB	FILTER	5	
FL7914,15		ELKAW101GB	COIL 100UH	2	
FL7916		VLF0633	FILTER	1	
IC301		VEPH20B	IC	1	
IC302		MN3859S	IC	1	
IC303		AN1358S	IC	1	
IC701		M52014SP	IC	1	
IC801		VCR0383	IC	1	
IC802		M52352FP	IC	1	
IC2001		AN3727S	IC	1	
IC2002		UPD4053BG	IC	1	
IC2501		BA6219B	IC	1	
IC2502		LM358PS	IC	1	
IC2503		XRA6439S	IC	1	
IC2504		LM358PS	IC	1	
IC2505		LM393P	IC	1	
IC3001		AN3581S	IC	1	
IC3002		M52055FP	IC	1	
IC3301		M52083FP	IC	1	
IC3401		NJM2233BMA	IC	1	
IC3403		MN155202VZAM	IC	1	
IC3404		MN1280S	IC	1	
IC3405		UPD4066BG	IC	1	
IC3501		LC74760	IC	1	
IC3502		M52055FP	IC	1	
IC3503		NJM2246DA	IC	1	
IC3504		NJM2233BMA	IC	1	
IC3601		AN6308S	IC	1	
IC3901		M52475AP	IC	1	
IC3902		AN3916	IC	1	
IC3904		AN1393S	IC	1	
IC4001		NJM4565DD	IC	1	
IC4501		XLH7773AKS	IC	1	
IC4601		BA7755AF	IC	1	
IC4701		AN1358S	IC	1	
IC4702		MN4066BS	IC	1	
IC4901		LA7155M	IC	1	
IC6001		MN6755320H3W	IC	1	
IC6002		M38024V1BH	IC	1	
IC6003		MN1280S	IC	1	
IC6005		UPD4052BG	IC	1	
IC6008		TL431CLP	IC	1	
IC7201		UPD4011BC	IC	1	
IC7401		M66006FP	IC	1	
IC7651		AN5421	IC	1	
IC7652		AN5043	IC	1	
IC7653		MN4066BS	IC	1	
IC7901		TB1204F	IC	1	
IC7902		TA2009F	IC	1	
IC7903		M5238FP	IC	1	
J3901,02		VJS1470	21PIN SKIRT JACK	2	
L302		VLQ0188J180	COIL 18UH	1	
L304		VLQ0188J270	COIL 27UH	1	
L305		VLQ0188J101	COIL 100UH	1	
L306		VLQ0188J390	COIL 39UH	1	
L309-11		VLQ0188J330	COIL 33UH	3	
L312		ELESE121JA	COIL 120H	1	
L701		ELESQ680KA	COIL 68UH	1	
L713		VLQ0213K1R2	COIL 1.2UH	1	
L714		ELQT1R2KB	COIL 1.2UH	1	
L718		ELESQ680KA	COIL 68UH	1	
L719		ELESQ8R2KA	COIL 8.2UH	1	
L801,02		ELESE681KA	COIL 680UH	2	
L803		ELESE331KA	COIL H	1	
L804		VLQ0407101K	COIL 100UH	1	
L806		VLQ0407101K	COIL 100UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L807,08		VLQ0188J150	COIL 15UH	2	
L809		VLQ0188J330	COIL 33UH	1	
L810		VLQ0188J150	COIL 15UH	1	
L811		VLQ0188J151	COIL 150UH	1	
L812		VLQ0188J270	COIL 27UH	1	
L813,14		VLQ0188J150	COIL 15UH	2	
L2001		VLQ0569	COIL	1	
L2002		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
L2501		VLP0074	COIL	1	
L2502		ELESE330KA	COIL	1	
L2503		ELESE102KA	COIL 1000UH	1	
L3001-03		VLQ0188J330	COIL 33UH	3	
L3004		VLQ0398	COIL	1	
L3301		VLQ0188J150	COIL 15UH	1	
L3304		VLQ0188J330	COIL 33UH	1	
L3306		VLQ0188J390	COIL 39UH	1	
L3307		VLQ0188J120	COIL 12UH	1	
L3308		VLQ0188J330	COIL 33UH	1	
L3309		VLQ0188J181	COIL 180UH	1	
L3310		VLQ0188J270	COIL 27UH	1	
L3313		ELESE681KA	COIL 680UH	1	
L3315,16		VLQ0188J5R6	COIL 5.6UH	2	
L3318		VLQ0188J330	COIL 33UH	1	
L3323		VLQ0188J330	COIL 33UH	1	
L3401		VLQ0188J150	COIL 15UH	1	
L3404		VLQ0188J220	COIL 22UH	1	
L3405		VLQ0188J330	COIL 33UH	1	
L3412		VLQ0188J330	COIL 33UH	1	
L3415		VLQ0188J120	COIL 12UH	1	
L3501		VLQ0188J330	COIL 33UH	1	
L3502		VLQ0188J5R6	COIL 5.6UH	1	
L3503		VLQ0188J100	COIL 10UH	1	
L3504		VLQ0188J390	COIL 39UH	1	
L3505		VLQ0188J820	COIL 82UH	1	
L3508		VLQ0188J330	COIL 33UH	1	
L3601		VLQELO5S120K	COIL 12UH	1	
L3602,03		VLQELO5S101K	COIL 100UH	2	
L3604		VLQELO5S151K	COIL H	1	
L3605		VLQELO5S820K	COIL 82UH	1	
L3901-04		ELESE101KA	COIL 100UH	4	
L4001,02		ELESE101KA	COIL 100UH	2	
L4501,02		ELESE101KA	COIL 100UH	2	
L4601		VLQELO7F153J	COIL 15MH	1	
L4701		ELESE471KA	COIL	1	
L4702		ELESE101KA	COIL 100UH	1	
L4901,02		ELESE102KA	COIL 1000UH	2	
L4903,04		ELESE101KA	COIL 100UH	2	
L4905,06		ELESE102KA	COIL 1000UH	2	
L4907,08		ELESE101KA	COIL 100UH	2	
L4909,10		ELESE102KA	COIL 1000UH	2	
L6001		VLP0083	COIL	1	
L6002		ELESE101KA	COIL 100UH	1	
L6003		VLP0083	COIL	1	
L6007,08		VLP0083	COIL	2	
L6009		ELESE101KA	COIL 100UH	1	
L7402,03		VLQ0188J330	COIL 33UH	2	
L7404		VLQ0540J330	COIL 33UH	1	
L7405		VLQ0188J1R0	COIL 1UH	1	
L7901,02		VLP0083	COIL	2	
P1001		VJP2593	CONNECTOR (MALE)	1	
P1001		VJS2593	CONNECTOR (FEMALE)	1	
P1002		VJP1142	CONNECTOR (MALE) 3P	1	
P1002		VJS1142	CONNECTOR (FEMALE)	1	
P1102		VJS1932	CONNECTOR (FEMALE)	1	
P1103		VJS1142	CONNECTOR (FEMALE)	1	
P1509		VJS1141	CONNECTOR (FEMALE)	1	
P2001		VJP1232T	CONNECTOR (MALE) 5P	1	
P2001		VJS1738T	CONNECTOR (FEMALE)	1	
P2003		VJP3502	CONNECTOR (MALE)	1	
P2003		VJS3482	CONNECTOR (FEMALE)	1	
P2004		VJS3537A015G	CONNECTOR (FEMALE) 15P	1	
P2902		VJS1738T	CONNECTOR (FEMALE)	1	
P3001		VJS3537A020G	CONNECTOR (FEMALE) 20P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P3002	VJP3233A010	CONNECTOR (MALE) 10P	1	
P3002	VJS3366Z010	CONNECTOR (FEMALE) 10P	1	
P4001	VJS2331	CONNECTOR (FEMALE)	1	
P4002	VJP1238T	CONNECTOR (MALE) 11P	1	
P4002	VJS1744T	CONNECTOR (FEMALE)	1	
P4003	VJP1230T	CONNECTOR (MALE) 3P	1	
P4003	VJS1230	CONNECTOR (FEMALE)	1	
P6001	VJS3537A014G	CONNECTOR (FEMALE) 14P	1	
P6003	VJP1233T	CONNECTOR (MALE) 6P	1	
P6003	VJS1739T	CONNECTOR (FEMALE)	1	
P6502	VJS1744T	CONNECTOR (FEMALE)	1	
P7201	VJP1245T	CONNECTOR (MALE) 5P	1	
P7201	VJS1232T	CONNECTOR (FEMALE)	1	
P7401,02	VJS3537A020G	CONNECTOR (FEMALE) 20P	2	
P7503	VJS3366Z010	CONNECTOR (FEMALE) 10P	1	
P7504	VJS1739T	CONNECTOR (FEMALE)	1	
PK7901,02	VJR0477	PACK PIN	2	
PP2001	VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP2002	VJP3042A010W	CONNECTOR (MALE) 10P	1	
PP3001	VJP3042A009W	CONNECTOR (MALE) 9P	1	
PP3002	VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP3003	VJP3042A013W	CONNECTOR (MALE) 13P	1	
PP3011,12	VJP3042A018W	CONNECTOR (MALE) 18P	2	
PP3013	VJP3042A014W	CONNECTOR (MALE) 14P	1	
PP3021-24	VJP3043A012W	CONNECTOR (MALE) 12P	4	
PP3301	VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP4001-03	VJP3186A018W	CONNECTOR (MALE) 18P	3	
PP4501	VJP3042A017W	CONNECTOR (MALE) 17P	1	
PP7401-03	VJP3043A005W	CONNECTOR (MALE) 5P	3	
PP7404	VJP3043A006W	CONNECTOR (MALE) 6P	1	
PP7405	VJP3043A004W	CONNECTOR (MALE) 4P	1	
PP7406	VJP3043A010W	CONNECTOR (MALE) 10P	1	
PS301	VJS3042B009W	CONNECTOR (FEMALE) 9P	1	
PS302	VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS303	VJS3042B013W	CONNECTOR (FEMALE) 13P	1	
PS701-03	VJS3043B005W	CONNECTOR (FEMALE) 5P	3	
PS704	VJS3043B006W	CONNECTOR (FEMALE) 6P	1	
PS2001	VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS2002	VJS3042B010W	CONNECTOR (FEMALE) 10P	1	
PS3021-24	VJS3043B012W	CONNECTOR (FEMALE) 12P	4	
PS3302,03	VJS3042B018W	CONNECTOR (FEMALE) 18P	2	
PS3501	VJS3042F014W	CONNECTOR (FEMALE) 14P	1	
PS3601	VJS3042B011W	CONNECTOR (FEMALE) 11P	1	
PS4001-03	VJS3186B018	CONNECTOR (FEMALE) 18P	3	
PS4701	VJS3042B017W	CONNECTOR (FEMALE) 17P	1	
Q301	MSC2295	TRANSISTOR	1	
Q302	MSB709	TRANSISTOR	1	
Q303,04	MSC2295	TRANSISTOR	2	
Q305	MSD601	TRANSISTOR	1	
Q306	MSC2295	TRANSISTOR	1	
Q307,08	MSB709	TRANSISTOR	2	
Q703	MSD601-S	TRANSISTOR	1	
Q711	MSB709-R	TRANSISTOR	1	
Q712	2SD1996-R	TRANSISTOR	1	
Q713	2SD1328-S	TRANSISTOR	1	
Q771	MSD601	TRANSISTOR	1	
Q772	MSD601-S	TRANSISTOR	1	
Q801	2SA1022	TRANSISTOR	1	
Q802	MSC2295	TRANSISTOR	1	
Q803	MSB709	TRANSISTOR	1	
Q1001	2SD1996	TRANSISTOR	1	
Q2001,02	MSB709	TRANSISTOR	2	
Q3001	MSD602	TRANSISTOR	1	
Q3002	2SB1322	TRANSISTOR	1	
Q3003	MSD601	TRANSISTOR	1	
Q3004	MSC2295	TRANSISTOR	1	
Q3005,06	MSD601	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3301,02	MSC2295	TRANSISTOR	2	
Q3304,05	MSD601	TRANSISTOR	2	
Q3401,02	MSC2295	TRANSISTOR	2	
Q3403	MSD601	TRANSISTOR	1	
Q3404	MSC2295	TRANSISTOR	1	
Q3405-07	MSD601	TRANSISTOR	3	
Q3408	MSD602	TRANSISTOR	1	
Q3409	MSB710	TRANSISTOR	1	
Q3410-12	MSD601	TRANSISTOR	3	
Q3422	MSD1328	TRANSISTOR	1	
Q3423	MSD601	TRANSISTOR	1	
Q3424	MSB710	TRANSISTOR	1	
Q3425	MSC2295	TRANSISTOR	1	
Q3426,27	MSD601	TRANSISTOR	2	
Q3501	MSD601	TRANSISTOR	1	
Q3502	MSB709	TRANSISTOR	1	
Q3601	MSD601	TRANSISTOR	1	
Q3602,03	MSC2295	TRANSISTOR	2	
Q3604	MSB709	TRANSISTOR	1	
Q3901,02	2SD1991A	TRANSISTOR	2	
Q3903	MSD1328	TRANSISTOR	1	
Q3904	MSD601	TRANSISTOR	1	
Q3905	MSC2295	TRANSISTOR	1	
Q3906	MSB709	TRANSISTOR	1	
Q3907	MSD601	TRANSISTOR	1	
Q3912	2SD1996	TRANSISTOR	1	
Q3913-15	MSD601	TRANSISTOR	3	
Q3916	MSB710	TRANSISTOR	1	
Q3917	MSD602	TRANSISTOR	1	
Q3918	MSB710	TRANSISTOR	1	
Q4501	2SD655	TRANSISTOR	1	
Q4551	2SB561	TRANSISTOR	1	
Q4552	2SD1819A	TRANSISTOR	1	
Q4601,02	2SD1819A	TRANSISTOR	2	
Q4701	2SD602A-R	TRANSISTOR	1	
Q4702,03	MSD601	TRANSISTOR	2	
Q4704,05	MSB710	TRANSISTOR	2	
Q4706	2SB1378	TRANSISTOR	1	
Q4707	2SD601A	TRANSISTOR	1	
Q4708	2SB1378	TRANSISTOR	1	
Q6001	2SD1991A	TRANSISTOR	1	
Q6002	MSB709	TRANSISTOR	1	
Q6003	2SD1915F	TRANSISTOR	1	
Q6004-06	MSD601	TRANSISTOR	3	
Q6008	2SD1991	TRANSISTOR	1	
Q7901,02	MSD601	TRANSISTOR	2	
Q7903	2SC3931CD	TRANSISTOR	1	
Q7904-07	2SB1219	TRANSISTOR	4	
Q7908,09	2SC3929	TRANSISTOR	2	
Q7910	2SD1820	TRANSISTOR	1	
Q7913	2SB1218-Q	TRANSISTOR	1	
Q7914,15	2SD1979-S	TRANSISTOR	2	
Q7916	2SB1219	TRANSISTOR	1	
QR301	MRN1402	TRANSISTOR-RESISTOR	1	
QR302	MRN1403	TRANSISTOR-RESISTOR	1	
QR303	MRN1404	TRANSISTOR-RESISTOR	1	
QR304	MRN1402	TRANSISTOR-RESISTOR	1	
QR305	MRN2404	TRANSISTOR-RESISTOR	1	
QR306	XN6213	TRANSISTOR-RESISTOR	1	
QR307	MRN1404	TRANSISTOR-RESISTOR	1	
QR308	MRN1407	TRANSISTOR-RESISTOR	1	
QR309	MRN1402	TRANSISTOR-RESISTOR	1	
QR310	MRN1404	TRANSISTOR-RESISTOR	1	
QR311	MRN2404	TRANSISTOR-RESISTOR	1	
QR312	MRN2402	TRANSISTOR-RESISTOR	1	
QR313,14	MRN1404	TRANSISTOR-RESISTOR	2	
QR315	MRN2404	TRANSISTOR-RESISTOR	1	
QR316,17	XN6213	TRANSISTOR-RESISTOR	2	
QR318	MRN1402	TRANSISTOR-RESISTOR	1	
QR319,20	MRN1404	TRANSISTOR-RESISTOR	2	
QR701	MRN1407	TRANSISTOR-RESISTOR	1	
QR702	MRN1404	TRANSISTOR-RESISTOR	1	
QR713	MRN1402	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR802	MRN1404	TRANSISTOR-RESISTOR	1	
QR803	MRN1403	TRANSISTOR-RESISTOR	1	
QR805	MRN1404	TRANSISTOR-RESISTOR	1	
QR806	XN6213	TRANSISTOR-RESISTOR	1	
QR1001,02	MRN1402	TRANSISTOR-RESISTOR	2	
QR2001	XN1213	TRANSISTOR-TRANSISTOR	1	
QR2002	MRN2404	TRANSISTOR-RESISTOR	1	
QR2501	XN1211	TRANSISTOR-RESISTOR	1	
QR3001,02	MRN1403	TRANSISTOR-RESISTOR	2	
QR3003	MRN2402	TRANSISTOR-RESISTOR	1	
QR3301-04	DTC363EK	TRANSISTOR-RESISTOR	4	
QR3305	UN211D	TRANSISTOR-RESISTOR	1	
QR3306	DTC363EK	TRANSISTOR-RESISTOR	1	
QR3307	MRN1404	TRANSISTOR-RESISTOR	1	
QR3402	MRN2402	TRANSISTOR-RESISTOR	1	
QR3403	MRN1403	TRANSISTOR-RESISTOR	1	
QR3404	XN4212	TRANSISTOR-TRANSISTOR	1	
QR3405	MRN1403	TRANSISTOR-RESISTOR	1	
QR3406-08	XN1212	TRANSISTOR-RESISTOR	3	
QR3409,10	MRN1403	TRANSISTOR-RESISTOR	2	
QR3411	MRN1402	TRANSISTOR-RESISTOR	1	
QR3412	MRN1404	TRANSISTOR-RESISTOR	1	
QR3415	XN4212	TRANSISTOR-TRANSISTOR	1	
QR3416	XN1212	TRANSISTOR-RESISTOR	1	
QR3417	XN4212	TRANSISTOR-TRANSISTOR	1	
QR3418	MRN1402	TRANSISTOR-RESISTOR	1	
QR3901-03	MRN1404	TRANSISTOR-RESISTOR	3	
QR3904,05	MRN1402	TRANSISTOR-RESISTOR	2	
QR3906	MRN1404	TRANSISTOR-RESISTOR	1	
QR4001	MRN1403	TRANSISTOR-RESISTOR	1	
QR4002,03	DTC363EK	TRANSISTOR-RESISTOR	2	
QR4004,05	MRN1404	TRANSISTOR-RESISTOR	2	
QR4508,09	UN5113	TRANSISTOR-RESISTOR	2	
QR4510	UN5212	TRANSISTOR-RESISTOR	1	
QR4602	UN5111	TRANSISTOR-RESISTOR	1	
QR4603	UN5213	TRANSISTOR-RESISTOR	1	
QR4701-03	MRN1403	TRANSISTOR-RESISTOR	3	
QR4704	MRN1404	TRANSISTOR-RESISTOR	1	
QR6001	MRN1402	TRANSISTOR-RESISTOR	1	
QR6002,03	MRN2402	TRANSISTOR-RESISTOR	2	
QR6004	MRN1402	TRANSISTOR-RESISTOR	1	
QR6009	XN1213	TRANSISTOR-TRANSISTOR	1	
QR6012	MRN1404	TRANSISTOR-RESISTOR	1	
QR6013	MRN1403	TRANSISTOR-RESISTOR	1	
QR6014	MRN1404	TRANSISTOR-RESISTOR	1	
QR6015	MRN2402	TRANSISTOR-RESISTOR	1	
QR7601	MRN1404	TRANSISTOR-RESISTOR	1	
QR7901,02	UN5213	TRANSISTOR-RESISTOR	2	
QR7903	UN5112	TRANSISTOR-RESISTOR	1	
QR7904	UN5214	TRANSISTOR-RESISTOR	1	
QR7905,06	UN5213	TRANSISTOR-RESISTOR	2	
R301	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R303	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R304	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305,06	ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	2	
R307	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R308	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R309	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R310	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R311	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R312	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R313	ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R314	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R315	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R316	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R317	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R318	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R319	ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R320	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R321	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R322	ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R323	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R324	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R325	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R326	ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R327	ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R328	ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R329	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R330	ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R331	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R332	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R333	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R334	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R335	ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R336	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R337	ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R338,39	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R340	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R341	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R342	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R343	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R344	ERJ6GMYJ911	M.RESISTOR CH 1/10W 910	1	
R345	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R346	ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R347	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R348	ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R349	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R350	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R351	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R352	ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R353	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R354	ERJ6GMYG753	M.RESISTOR CH 1/10W 75K	1	
R355	ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R356	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R357	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R358	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R359	ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R360,61	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R362	ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R363	ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R716	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R719	ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R720	ERJ6GEYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R721	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R724	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R725	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R727	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R728	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R729	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R730	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R736	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R737	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R738	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R739	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R740	ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R741	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R742	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R743	ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R744	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R745	ERJ6GEYG181	M.RESISTOR CH 1/10W 180	1	
R746	ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R750	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R757,58	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R759	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R763	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R772	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R779	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R781	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R790	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R791	ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R798	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R802	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R803	ERJ6GMYG242	M.RESISTOR CH 1/10W 2.4K	1	
R804,05	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R809	ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R810,11	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R814		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R816		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R817		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R818		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R820		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R821,22		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R824		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R825		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R826		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R827		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R828		ERJ6GMYJ204	M.RESISTOR CH 1/10W 200K	1	
R829		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R830		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R831		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R832		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R833		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R834		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R835,36		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R837		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R838,39		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R840		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R841		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R842,43		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R844		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R845		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R846		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R847		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R848		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R849		ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R850		ERJ6GMYJ302	M.RESISTOR CH 1/10W 3K	1	
R851,52		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R853		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1002		ERDS1TJ822	C.RESISTOR 1/2W 8.2K	1	
R2004		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2005		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2011		ERJ6GMYG222	M.RESISTOR CH 1/10W 2.2K	1	
R2012		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2013,14		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2015		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2016		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2018		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2019		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2501		ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R2502		ERJ6GMYG112	M.REISITOR CH 1/10W 1.1K	1	
R2503		ERJ6GMYG102	M.RESISTOR CH 1/10W 1K	1	
R2504		ERJ6GMYG332	M.RESISTOR CH 1/10W 3.3K	1	
R2505		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2506		ERJ6GMYJ564	M.RESISTOR CH 1/10W 560K	1	
R2507		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2508		VRE0034E512	M.RESISTOR CH 1/10W 5.1K	1	
R2509		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	1	
R2510		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2511		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2513		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	
R2514		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2515		ERG12SJ561	M.RESISTOR 1/2W 560	1	
R2516		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R2517		ERX12SJR47	M.RESISTOR CH 1/2W 0.47	1	
R2518		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2519		ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R2520		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R2521-23		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2524		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2525		ERDS2CKG6800	M.RESISTOR 1/4W 680	1	
R2526		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2527		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2528		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2529		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2530		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2531,32		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2533		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2534		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2535		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2536		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2537		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2538		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2539		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R2540		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2541		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R3001,02		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3003		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3004		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R3005		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3006,07		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3008		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3009		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3010		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3011		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3012		ERJ6GMYG911	M.RESISTOR CH 1/10W 910	1	
R3013		ERJ6GMYG102	M.RESISTOR CH 1/10W 1K	1	
R3014		ERJ6GMYG471	M.RESISTOR CH 1/10W 470	1	
R3015		ERJ6GMYG102	M.RESISTOR CH 1/10W 1K	1	
R3016		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3017		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3018		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3019		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3021		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3022		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R3023		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3024		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R3025		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3026,27		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R3301		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3302		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3303		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3304		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3305		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3306		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3307		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3308		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3310		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3322		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3323		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3324		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3325,26		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3327		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3328		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3333		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3334		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3335		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3336,37		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R3338		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3339		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3340		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3341		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R3342		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3345,46		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	2	
R3347		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3352		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3353		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R3401		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3402		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3403		ERJ6GMYG361	M.RESISTOR CH 1/10W 360	1	
R3404		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3405		ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R3406		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R3407		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3408		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R3409		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R3410		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3411-13		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R3415		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3417		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3422		ERJ6GMYG333	M.RESISTOR CH 1/10W 33K	1	
R3423		ERJ6GMYG683	M.RESISTOR CH 1/10W 68K	1	
R3424		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3425		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3426		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3427		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3428		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3429		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3430		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R3431		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R3433		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3434		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3435		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R3436		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3437		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R3438		ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R3441		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3442		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3443		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3444,45		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3446,47		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3463		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3464		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3465		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3466		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3467		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3468,69		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R3470		ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R3471		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R3472		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3473		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R3474		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R3475		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3476		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3477,78		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R3479		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3501		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3502		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3503		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3504,05		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R3506		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R3507		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R3508		ERJ6GMYG332	M.RESISTOR CH 1/10W 3.3K	1	
R3509-11		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R3513,14		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3515		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3516		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3517		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3518		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3519		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3520		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3521		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3522		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3523		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3524		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3525		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R3526		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R3601		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3602		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3603		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3604		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3605		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3606		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3607-12		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R3613		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3614		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3616		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3901-05		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	5	
R3906		ERDS1TJ750	C.RESISTOR 1/2W 75	1	
R3908,09		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3910,11		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R3912,13		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	2	
R3914		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3915		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3916,17		ERDS2TJ181	C.RESISTOR 1/4W 180	2	
R3926		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3927,28		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3929		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3930		ERJ6GMYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3931		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3932		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3933		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R3934		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3935		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3936		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3938		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3945		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3946		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R3950,51		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	2	
R3953		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R3954		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3955		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R3956		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3957-60		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R3961		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3962		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3963		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3964		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3965		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3966		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3967		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3968		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4001,02		ERDS2TJ680	C.RESISTOR 1/4W 68	2	
R4003-08		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	6	
R4009		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4010		ERJ6GMYG433	M.RESISTOR CH 1/10W 43K	1	
R4011		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4012		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4013		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4014		ERJ6GMYG100	M.RESISTOR CH 1/10W 10	1	
R4015		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4021		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4022		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4028		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4029,30		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R4033		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R4034		ERJ6GMYG393	M.RESISTOR CH 1/10W 39K	1	
R4035		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R4036		ERJ6GMYG393	M.RESISTOR CH 1/10W 39K	1	
R4501,02		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4503		ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R4504,05		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4506,07		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4508		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4509		ERJ3GEYJ622	M.RESISTOR CH 1/16W 6.2K	1	
R4511		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4512		VRE0071E163	M.RESISTOR CH 1/10W 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4514,15		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4518,19		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4522		ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4527		VRE0071E333	M.RESISTOR CH 1/10W 33K	1	
R4528		VRE0071E153	M.RESISTOR CH 1/10W 15K	1	
R4529		ERJ3GEYG562	M.RESISTOR CH 1/16W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4534		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4535		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4541		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4542		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553,54		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4558		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4561		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4562		VRE0034E10C	M.RESISTOR CH 1/10W	1	
R4563		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568,69		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4573		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578		VRE0071E473	M.RESISTOR CH 1/10W 47K	1	
R4581		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4583		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4584		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4585		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4586		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4592		ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4593		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4596		ERJ3GEYG473	M.RESISTOR CH 1/16W 47K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4598,99		ERJ3GEYG104	M.RESISTOR CH 1/16W 100K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4612		ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R4613		ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R4615		ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4638		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4651		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4652		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4653		ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4654		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4655		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4656		ERJ3GEYG243	M.RESISTOR CH 1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4671		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4701		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4702		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R4703		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4704,05		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	2	
R4706		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4707		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4708		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4709		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4710		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4711		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4712		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4713		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4714		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4715		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4716		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4717		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4718		ERJ6GMYG753	M.RESISTOR CH 1/10W 75K	1	
R4719		ERJ6GMYG203	M.RESISTOR CH 1/10W 20K	1	
R4720,21		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R4722		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R4723		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4724,25		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R4901,02		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	2	
R4903,04		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4905,06		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	2	
R4907,08		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4909,10		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R4915-18		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	4	
R4921		ERJ6GMYG163	M.RESISTOR CH 1/10W 16K	1	
R4922,23		ERJ6GMYG433	M.RESISTOR CH 1/10W 43K	2	
R4924		ERJ6GMYG163	M.RESISTOR CH 1/10W 16K	1	
R4925		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4926		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R4929		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R4930		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6002,03		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6004		ERDS2CKG2000	M.RESISTOR 1/4W 200	1	
R6005		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6006		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6007-09		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6010,11		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6012		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6013		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6015,16		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6017		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R6018		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6019		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6020,21		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6022-24		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6025		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6027		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6028		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6029		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6030		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6031		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6032,33		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R6034		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6035		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R6036		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R6037,38		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6039,40		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6042		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6044-49		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R6050		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6051		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6052		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6053		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6054		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6055		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6056,57		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6058,59		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6060		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6061,62		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	2	
R6063		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6064		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R6066		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6067		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R6068-70		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R6071		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6074		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6075		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6076		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R6077		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6078		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6079		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6081		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6082		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6083-86		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	4	
R6087,88		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R6089,90		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6091		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6092,93		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R6094		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6096		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6097,98		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6099		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R6100		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6102,03		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6104		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6106,07		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6108		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6109		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6110		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6112		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6113		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6115		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6117		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6119,20		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6122		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6123		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6124		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6125		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7201		ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7202		ERDS2TJ105	C.RESISTOR 1/4W 1M	1	
R7203		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7204		ERDS2TJ472	C.RESISTOR 1/4W 4.7K	1	
R7205		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7206		ERDS2TJ824	C.RESISTOR 1/4W 820K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7403	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7405,06	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7410-12	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	3	
R7413-19	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	7	
R7420	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7421-23	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7651	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7654	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7655	ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R7656	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7657	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7658	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7659	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7661	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7662	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7663	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7664	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7671,72	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7673	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7674	ERJ6GEYF124	M.RESISTOR CH 1/10W 120K	1	
R7675	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7676	ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7677	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R7678	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7679	ERDS2TJ100	C.RESISTOR 1/4W. 10	1	
R7680	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7681,82	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7683	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7684	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7691	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7692	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7693	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7694	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7695	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7696	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7901	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R7902	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R7903	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7904	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7905	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7906	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R7907	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R7908	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7909-11	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	3	
R7913-15	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	3	
R7917	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7918-21	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R7922	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R7923	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R7924-26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R7927	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R7928	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7929	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R7930	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R7931-33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R7934	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R7935	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7936	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R7937	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R7938	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R7939	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R7940	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R7941	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R7942	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R7943	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7944	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R7945	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R7946,47	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R7948	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R7949	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R7950	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R7951	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R7956	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R7957	ERJ3GEYJ332	M.RESISTOR CH 1/16W 3.3K	1	
R7958,59	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7960,61	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R7962,63	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R7964	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R7969-72	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R7973-77	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R7978	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7979	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R7980	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7981,82	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R7983	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7985	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R7987	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R7988	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R7989	ERDS2TJ823	C.RESISTOR 1/4W 82K	1	
RX3401	EXBF8E102J	RESISTOR-RESISTOR	1	
SW3901	VSS0385	SWITCH	1	
T703	EIV5EC045A	TRANSFORMER	1	
T704	EIV5EC047A	TRANSFORMER	1	
T711	EIS5EC008A	TRANSFORMER	1	
T4701	VLT0695	TRANSFORMER	1	
T4702	VLT0696	TRANSFORMER	1	
TR	VJS3481	CONNECTOR (FEMALE)	1	
VR301	EVN49CA00B23	V.RESISTOR 2K	1	
VR302	EVN49CA00B13	V.RESISTOR	1	
VR303	EVNCBAA00B13	V.RESISTOR	1	
VR304	EVN49CA00B13	V.RESISTOR	1	
VR701	EVNCBAA00B53	V.RESISTOR	1	
VR751	EVNCBAA00B53	V.RESISTOR	1	
VR801,02	EVMEASA00B13	V.RESISTOR	2	
VR803	EVMEASA00B14	V.RESISTOR	1	
VR804	EVN49CA00B53	V.RESISTOR	1	
VR2001-05	EVNCYAA03B54	V.RESISTOR	5	
VR3001-03	EVNCYAA03B23	V.RESISTOR	3	
VR3301	EVMEASA00B24	V.RESISTOR	1	
VR3302	EVN49CA00B54	V.RESISTOR	1	
VR3304,05	EVN49CA00B52	V.RESISTOR 500	2	
VR3307	EVN49CA00B54	V.RESISTOR	1	
VR3901	EVMEASA00B24	V.RESISTOR	1	
VR4002	EVNCYAA03B25	V.RESISTOR	1	
VR4501	EVMECSA00B53	V.RESISTOR	1	
VR4502	EVMEASA00BY4	V.RESISTOR	1	
VR4507	EVMEASA00BY4	V.RESISTOR	1	
VR4509	EVMECSA00BY3	V.RESISTOR	1	
VR4512	EVNCBAA00B52	V.RESISTOR	1	
VR4550	EVMECSA00B14	V.RESISTOR	1	
VR4551,52	EVMEASA00B55	V.RESISTOR	2	
VR7660	EVNCBAA00B23	V.RESISTOR	1	
VR7901,02	EVNCBAA00B14	V.RESISTOR	2	
VR7903	EVTEASA00B55	V.RESISTOR	1	
X710	EFCH39MGQ1	CRYSTAL OSCILLATOR	1	
X711	EFCS6M65MW3B	CRYSTAL OSCILLATOR	1	
X712	EFCS6R0MS5	CRYSTAL OSCILLATOR	1	
X801	VSX0406	CRYSTAL OSCILLATOR	1	
X3302	EFOGC3584A5	CRYSTAL OSCILLATOR	1	
X3501	VSX0574	CRYSTAL OSCILLATOR	1	
X6001	VSX0583	CRYSTAL OSCILLATOR	1	
X6002	EFOEC7374T4E	CRYSTAL OSCILLATOR	1	
X7001	VSQ0565	CRYSTAL OSCILLATOR	1	
X7901	VSX0513	CRYSTAL OSCILLATOR	1	
X7902	VSX0512	CRYSTAL OSCILLATOR	1	
X7903	EFCA6004BF	CRYSTAL OSCILLATOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VEK6605	EARTH WIRE	1	(TV DEMODU.-POWER
					SHIELD CASE)
		VJH0684	RF ANT TERMINAL PLATE	1	
		VEE8682	WIRE CABLE	1	(P1001-P1102)
		VEE8683	WIRE CABLE	1	(P1002-P1103)
		VEE8688	WIRE CABLE	1	(P2001-P2902)
		VEE9001	WIRE CABLE	1	(POWER TR.-P2003)
		VEE8685	WIRE CABLE	1	(P4002-P6502)
		VEE8686	WIRE CABLE	1	(P6003-P7504)
		VEE8837	WIRE CABLE	1	(P3002-P7503)
		VWJ0775	FLAT CARD CABLE	1	(P2004-P1507)
		VWJ0776	FLAT CARD CABLE	1	(P3001-P501)
		VWJ0778	FLAT CARD CABLE	1	(P7401-P7501)
		VWJ0801	FLAT CARD CABLE	1	(P7402-P7502)
		VMA6768	EARTH ANGLE	1	
		VJF1031	CLAMPER	1	
		VEE8687	WIRE CABLE	1	(P4003-P1509)
		ENV87837H3Y	TUNER	1	<!>FOR TV DEMODU.
		ENC17990	RF CONVERTER	1	<!>FOR TV DEMODU.
		VSC4025	SHIELD COVER (MAIN)	1	FOR TV DEMODULATOR
		VSC3241	SHIELD COVER (TOP)	1	FOR TV DEMODULATOR
		VEE9138	WIRE CABLE	1	(TV DEMODU-AFC DEF)
		VMX2233	SPACER	1	FOR SUB LUMI. & CHRO.
		VEJ1465	REAR JACK PLATE	1	FOR I/O PACK C.B.A.
		XTV3+8GFZ	SCREW	4	FOR I/O PACK C.B.A.
		VSC3553	SHILED COVER (MAIN)	1	FOR NICAM DECORDER
		VSC3554	SHILED COVER (TOP)	1	FOR NICAM DECORDER
		VSC3555	SHILED COVER (BOTTOM)	1	FOR NICAM DECORDER
	■	VEP03A37G	MAIN C.B.A.		(RTL)NV-HS800EC
C301		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C303		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C305		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C306		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C307		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C308		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C309		ECUM1H562KBN	C.CAPACITOR CH 50V 5600P	1	
C310		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C311		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C312		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C313		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C314		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C315,16		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C317		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C318		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C319		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C321,22		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C324		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C325,26		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C329		ECQV1H334JM	P.CAPACITOR 50V 0.33U	1	
C331		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C332,33		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C334		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C335		ECEA0JKA220	E.CAPACITOR 6.3V 220U	1	
C336		ECEA1EKN4R7	E.CAPACITOR 25V 4.7U	1	
C337		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C338		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C339		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C340		ECEA0JKA220	E.CAPACITOR 6.3V 22U	1	
C341		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C342		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C343		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C344		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C345,46		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C348		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C349		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C350		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C351		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C701-03		ECEA1EK4R7	E.CAPACITOR 25V 4.7U	3	
C707		ECEA1HKOR1	E.CAPACITOR 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C708		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C719		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C721		ECQV1H823JM	P.CAPACITOR 50V 0.082U	1	
C723		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C725		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C728		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C730		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C731		VCEA1CAC100	E.CAPACITOR 16V 10U	1	
C732		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C736,37		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C739		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C740		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C741		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C742		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C743		ECUM1H270JSN	C.CAPACITOR CH 50V 27P	1	
C744,45		ECEA1HKOR1	E.CAPACITOR 50V 0.1U	2	
C746		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C747		ECUM1H680JPN	C.CAPACITOR CH 50V 68P	1	
C748		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C781		ECUM1H120JCN	C.CAPACITOR CH 50V 12P	1	
C782		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C790		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C792		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C802		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C803		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C804		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C805,06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C808		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C809		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C810		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C811-13		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C814		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C815		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C816		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C817		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C818		ECEA1HKA0R1	E.CAPACITOR 50V 0.1U	1	
C819		ECQB1H332JZ	F.CAPACITOR 50V 3300P	1	
C820		ECUM1H331JCN	C.CAPACITOR CH 50V 330P	1	
C821-23		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C824		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C825-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C828,29		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	2	
C830		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C831		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C832		ECQV1H154JM	P.CAPACITOR 50V 0.15U	1	
C833		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C834		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C835		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C836		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C1002		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C1003		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2001		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C2005		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2006		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C2007		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2009		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C2010		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2501-04		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C2505		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2506		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C2507		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C2508-10		ECEA1HKA2R2	E.CAPACITOR 50V 2.2U	3	
C2511-14		VCUV1H333KBN	C.CAPACITOR 50V 0.033U	4	
C2515		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C2516		ECEA1HKAR22	E.CAPACITOR 50V 0.22U	1	
C2517		ECA0JM221	E.CAPACITOR 6.3V 220U	1	
C2518		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2519,20		VCUV1H333KBN	C.CAPACITOR 50V 0.033U	2	
C2521		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C2522		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2523		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C2524,25		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C2526		ECA0JM221	E.CAPACITOR 6.3V 220U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C2527		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C2528		ECEA1HKNR47	E.CAPACITOR 50V 0.47U	1	
C2529		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C2530		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C2531		ECUM1E224ZFN	C.CAPACITOR CH 25V 0.22U	1	
C2532		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C2533		ECEA0JKA330	E.CAPACOTOR 6.3V 33U	1	
C2534,35		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	2	
C3001		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	1	
C3002		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3003-06		ECEA1HKA010	E.CAPACITOR 50V 1U	4	
C3007,08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3009		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3010		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3011		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3012		ECA1AM331	E.CAPACITOR 10V 330U	1	
C3013		ECA0JM331	E.CAPACITOR 6.3V 330U	1	
C3014		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3015		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3016		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3017-19		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	3	
C3022		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3023,24		ECEA1AKA330	E.CAPACITOR 10V 33U	2	
C3027,28		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3029		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3030		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3031		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3032		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3033		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3301		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3302		ECUM1H820JCN	C.CAPACITOR CH 50V 82P	1	
C3304-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3309		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3310		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3312-14		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3321		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3322		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3323		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3324		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3325		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3326		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3327,28		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C3329		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3330		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3336		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3338		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3339		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3340		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3341		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3342		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3343		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3344		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3345		ECUM1H391JCN	C.CAPACITOR CH 50V 390P	1	
C3346		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3347		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C3351,52		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	2	
C3353		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3354		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3372		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3401		ECUM1H470JCN	C.CAPACITOR CH 50V 47P	1	
C3402		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3403-07		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	5	
C3408,09		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C3421		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C3422		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3423		ECUM1H050CCN	C.CAPACITOR CH 50V 5P	1	
C3424		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3425		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3426		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3427		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3428		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3429		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3430		ECEA0JKA330	E.CAPACOTOR 6.3V 33U	1	
C3431		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3443		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C3444		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3445		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3447		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	1	
C3448		ECUM1H151JCN	C.CAPACITOR CH 50V 150P	1	
C3449		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3450,51		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C3452		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3472		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3473		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3474		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3475-77		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3501		ECA0JM471	E.CAPACITOR 6.3V 470U	1	
C3502		ECRHA030E54R	V.CAPACITOR	1	
C3503		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3504		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C3505		ECEA1HKN010	E.CAPACITOR 50V 1U	1	
C3506		ECQB1H682JZ	F.CAPACITOR 50V 6800P	1	
C3507		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C3508		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C3509		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C3510		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3511		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C3512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3513		ECUM1H080DCN	C.CAPACITOR CH 50V 8P	1	
C3514,15		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C3516,17		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C3518		ECEA1HKAR47	E.CAPACITOR 50V 0.47U	1	
C3519		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	1	
C3520		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3522		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C3523		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3524		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3525-27		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C3528		ECEA1HKA010	E.CAPACITOR 50V 1U	1	
C3529		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3530		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3531		ECUM1H150JCN	C.CAPACITOR CH 50V 15P	1	
C3532		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3533		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C3534		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3601		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3602		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C3603		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C3604		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C3605		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3606		ECUM1H681JCN	C.CAPACITOR CH 50V 680P	1	
C3607		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3608		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3609		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C3610		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3611		ECUM1H100DCN	C.CAPACITOR CH 50V 10P	1	
C3613		ECUM1H181JCN	C.CAPACITOR CH 50V 180P	1	
C3614		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3901-05		ECEA1CKA100	E.CAPACITOR 16V 10U	5	
C3906		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C3907		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3908		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3909,10		ECA1AM471	E.CAPACITOR 10V 470U	2	
C3911		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C3912		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C3913		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3914		ECEA1EK3R3	E.CAPACITOR 25V 3.3U	1	
C3915		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3916		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3917		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C3918		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C3919		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3922		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C3923		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C3924		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C3927		ECEA1CKA470	E.CAPACITOR 16V 47U	1	
C4001,02		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C4003,04		ECEA1CKA100	E.CAPACITOR 16V 10U	2	
C4005		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4006		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4007		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4008		ECUM1C224ZFN	C.CAPACITOR CH 16V 0.22U	1	
C4009		ECEA1CPZ101	E.CAPACITOR 16V 100U	1	
C4010		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C4011,12		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	2	
C4501		ECQB1H152JZ	F.CAPACITOR 50V 1500P	1	
C4502		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4503		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4504,05		ECEA1CU470	E.CAPACITOR 16V 47U	2	
C4506		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4507		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4508		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4509		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4510		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4511		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4512		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4513		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4514		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4515		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4517		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4518		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4521		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4522		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4528		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4530		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4533		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4537		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4538		ECEA1HUR47	E.CAPACITOR 50V 0.47U	1	
C4539		ECUM1C224ZFV	C.CAPACITOR CH 16V 0.22U	1	
C4541		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4545		ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4551		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	
C4552		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4556		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4558		ECEA1EBZ4R7	E.CAPACITOR 25V 4.7U	1	
C4559		ECEA1AU470	E.CAPACITOR 10V 47U	1	
C4560		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4561		ECQB1H332JF	P.CAPACITOR 50V 3300P	1	
C4562		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4563		ECUX1H681JV	C.CAPACITOR CH 50V 680P	1	
C4564		ECUX1H561JV	C.CAPACITOR CH 50V 560P	1	
C4565		ECEA1EU4R7	E.CAPACITOR 25V 4.7U	1	
C4567		ECEA1AU101	E.CAPACITOR 10V 100U	1	
C4568		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4572		ECEA1HU3R3	E.CAPACITOR 50V 3.3U	1	
C4576		ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C4583		ECEA1CU330	E.CAPACITOR 16V 33U	1	
C4585,86		ECEA1AU101	E.CAPACITOR 10V 100U	2	
C4591		ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C4592		ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C4593		ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4594,95		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C4596		ECEA1CU100	E.CAPACITOR 16V 10U	1	
C4597		ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C4598		ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4604		ECUM1H182JN	C.CAPACITOR CH 50V 1800P	1	
C4606		ECEA0JU470	E.CAPACITOR 6.3V 47U	1	
C4611		ECQB1H182JZ	F.CAPACITOR 50V 1800P	1	
C4613		ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C4616		ECUX1H102ZFV	C.CAPACITOR CH 50V 1000P	1	
C4617		ECEA1CM22	E.CAPACITOR 10V 22U	1	
C4618		ECQB1H822JZ	F.CAPACITOR 50V 8200P	1	
C4621		ECEA0JU101	E.CAPACITOR 6.3V 100U	1	
C4629		ECQB1H562JZ	P.CAPACITOR 50V 5600P	1	
C4636		ECUX1H471JV	C.CAPACITOR CH 50V 470P	1	
C4638		ECQB1H822JZ	F.CAPACITOR 50V 8200P	1	
C4652,53		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	2	
C4701		ECCD2H181J	C.CAPACITOR 500V 180P	1	
C4702		ECQP1222JZ	P.CAPACITOR 100V 2200P	1	
C4703		ECQB1H102JF	P.CAPACITOR 50V 1000P	1	
C4704		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C4705		ECEA16M33	E.CAPACITOR 16V 33U	1	
C4706		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C4707		ECQB1H223JF	P.CAPACITOR 50V 0.022U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C4708		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C4709		ECQB1H472JF	P.CAPACITOR 50V 4700P	1	
C4710		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C4711,12		ECEA1AKA220	E.CAPACITOR 10V 22U	2	
C4713		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C4714		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C4901,02		ECQB1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4903,04		ECQB1H332JZ	F.CAPACITOR 50V 3300P	2	
C4905,06		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4907,08		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4909,10		ECQB1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4911,12		ECQB1H332JZ	F.CAPACITOR 50V 3300P	2	
C4913,14		VCEA1CAD100	E.CAPACITOR 16V 10U	2	
C4915,16		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C4917,18		ECQB1H103JZ	F.CAPACITOR 50V 0.01U	2	
C4919,20		ECQB1H332JZ	F.CAPACITOR 50V 3300P	2	
C4923,24		VCEA0JAC101	E.CAPASITOR 6.3V 100U	2	
C6001		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6002		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6003		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6004		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6005		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6006		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6007,08		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	2	
C6010		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6011		ECUM1H472KBN	C.CAPACITOR CH 50V 4700P	1	
C6012		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6013		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6014		ECQB1H103JF	P.CAPACITOR 50V 0.01U	1	
C6015		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6016,17		ECEA1HKN3R3	E.CAPACITOR 50V 3.3U	2	
C6018		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6019		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6020		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6021		ECEA16M10	E.CAPACITOR 16V 1U	1	
C6022		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6023		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6024		ECEA1HKA4R7	E.CAPACITOR 50V 4.7U	1	
C6025		ECUM1H392KBN	C.CAPACITOR CH 50V 3900P	1	
C6026		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C6027		ECUM1E104KBN	C.CAPACITOR CH 25V 0.1U	1	
C6028		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C6029		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C6030		EECS5R5T224N	E.CAPACITOR 5.5V 0.22U	1	
C6034		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6035		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6036		ECEA0JKA330	E.CAPACITOR 6.3V 33U	1	
C6037		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6038		ECEA1AKA470	E.CAPACITOR 10V 47U	1	
C6040		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6041		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C6042		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6043		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C6045		ECEA0JKA470	E.CAPACITOR 6.3V 47U	1	
C6046		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6049		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6050,51		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	2	
C6053-56		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C6062		ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C6063		ECUM1H222KBN	C.CAPACITOR CH 50V 2200P	1	
C7302		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7303		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7304		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7305		ECQV1H473JZ	P.CAPACITOR 50V 0.047U	1	
C7306		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7307		ECQB1H822KZ	P.CAPACITOR 50V 8200P	1	
C7308		ECQB1H102KZ	P.CAPACITOR 50V 1000P	1	
C7309		ECQB1H152JH	P.CAPACITOR 50V 1500P	1	
C7310		ECEA16M10	E.CAPACITOR 16V 1U	1	
C7311		ECEA50M47	E.CAPACITOR 50V 0.47U	1	
C7312		ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	
C7313		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7314		ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	
C7315		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7316		ECQV1H224JM	P.CAPACITOR 50V 0.22U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7317		ECEA1CK101	E.CAPACITOR 16V 100U	1	
C7318		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7319		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7320,21		ECEA1CK100	E.CAPACITOR 16V 10U	2	
C7323,24		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	2	
C7331		ECQV1H474JM	P.CAPACITOR 50V 0.47U	1	
C7332,33		ECUM1H102ZFN	C.CAPACITOR CH 50V 1000P	2	
C7334		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7335		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7336		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7337		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C7339		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7340		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7341		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C7342		ECQV1H823JM	P.CAPACITOR 50V 0.082U	1	
C7343		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7345		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7346		ECUM1H390JPN	C.CAPACITOR CH 50V 39P	1	
C7347		ECUM1H070DCN	C.CAPACITOR CH 50V 7P	1	
C7348		ECQV1H393JZ	P.CAPACITOR 50V 0.039U	1	
C7349,50		ECUM1H221JCN	C.CAPACITOR CH 50V 220P	2	
C7351,52		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7353		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7402,03		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7404		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7405,06		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C7407,08		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7409		ECEA1CKA100	E.CAPACITOR 16V 10U	1	
C7410		ECEA0JKA101	E.CAPACITOR 6.3V 100U	1	
C7651		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7652		ECUM1H122KBN	C.CAPACITOR CH 50V 1200P	1	
C7653		ECUM1H153KBN	C.CAPACITOR CH 50V 0.015U	1	
C7654		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7655		ECQV1H683JM	P.CAPACITOR 50V 0.068U	1	
C7656		ECA1CM471	E.CAPACITOR 16V 470	1	
C7668		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C7685		ECEA1HK010	E.CAPACITOR 50V 1U	1	
C7901-03		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C7904		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7905		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7906		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7907		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7908		ECQV1H104JM	P.CAPACITOR 50V 0.1U	1	
C7909		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7910		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7911-13		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	3	
C7914		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7915		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C7916		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7917		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7918		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7919		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C7920		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7921		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7922		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7923		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C7924		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7925		ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C7926		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7927		ECQB1H102JH	P.CAPACITOR 50V 1000P	1	
C7928		ECQB1H272JH	P.CAPACITOR 50V 2700P	1	
C7929		ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C7930		ECEA1CKN100	E.CAPACITOR 16V 10U	1	
C7931		ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C7932,33		ECEA1CKN100	E.CAPACITOR 16V 10U	2	
C7934		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C7935		ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C7937		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7938		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7939,40		ECEA1HKNOR1	E.CAPACITOR 50V 0.1U	2	
C7941		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7942		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7943		ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C7945		ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C7946		ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C7947		ECEA1HKR47	E.CAPACITOR 50V 0.47U	1	
C7948		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7949		ECEA0JK330	E.CAPACITOR 6.3V 33U	1	
C7950-53		ECEA1CKN100	E.CAPACITOR 16V 10U	4	
C7954		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C7955-60		ECEA1CK100	E.CAPACITOR 16V 10U	6	
C7961		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7963		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C7964		ECEA1CK100	E.CAPACITOR 16V 10U	1	
C7965,66		ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C7967		ECEA1CK100	E.CAPACITOR 16V 10U	1	
D301		1SS283	DIODE	1	
D303		MA151WK	DIODE	1	
D305		1SS254	DIODE	1	
D306		MA723VT	DIODE	1	
D307		1SS254	DIODE	1	
D308,09		MA151WK	DIODE	2	
D710		MA3100L	DIODE	1	
D801-07		1SS254	DIODE	7	
D808		MA151WK	DIODE	1	
D1002		1SS254	DIODE	1	
D2001-05		1SS254	DIODE	5	
D2501-08		1SS254	DIODE	8	
D2510		1SS254	DIODE	1	
D3002		MA28W-A	DIODE	1	
D3003		1SS254	DIODE	1	
D3301		1SS254	DIODE	1	
D3302		MA151K	DIODE	1	
D3304		MA151K	DIODE	1	
D3403		MA723VT	DIODE	1	
D3408		1SS254	DIODE	1	
D3501		1SS254	DIODE	1	
D3502		MA153	DIODE	1	
D3504		MA151WK	DIODE	1	
D3901		1SS254	DIODE	1	
D3902		MA4130L	DIODE	1	
D3903		1SS254	DIODE	1	
D3904		MA151WK	DIODE	1	
D3906		MA151WA	DIODE	1	
D3908,09		1SS254	DIODE	2	
D4003		MA723VT	DIODE	1	
D4004		1SS254	DIODE	1	
D4501-04		MA141K	DIODE	4	
D4601,02		MA141K	DIODE	2	
D4701-03		1SS254	DIODE	3	
D6001		1SS254	DIODE	1	
D6002		MA723VT	DIODE	1	
D6003		1SS254	DIODE	1	
D6005		MA151WK	DIODE	1	
D6006		MA151WA	DIODE	1	
D6007		MA151WK	DIODE	1	
D6008		MA151WA	DIODE	1	
D6009		11EQS04	DIODE	1	
D6011,12		11EQS04	DIODE	2	
D6013		MA723VT	DIODE	1	
D6014		1SS254	DIODE	1	
D6015		MA723VT	DIODE	1	
D7303		MA28WA	DIODE	1	
D7304		MA3100L	DIODE	1	
D7401		MA723VT	DIODE	1	
D7672,73		MA3150H	DIODE	2	
D7901-03		MA141WK	DIODE	3	
D7904		MA141K	DIODE	1	
D7905		MA141WA	DIODE	1	
D7906		MA141WK	DIODE	1	
D7907		MA141K	DIODE	1	
DL801		EFDUN124A13N	DELAY	1	
DL802		EFDVR645A45A	DELAY LINE	1	
DL803		VLD0147	DELAY LINE	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
FL301		ELB4M022	FILTER	1	
FL302		VLF0639	FILTER	1	
FL801		VLF1079	FILTER	1	
FL3001		ELB4H020	FILTER	1	
FL3601		ELB4R031	FILTER	1	
FL3901		VLF1120	FILTER	1	
FL3902		VLF0765	FILTER	1	
FL7901		VLF0703	FILTER	1	
FL7902		ELKAW103EB	FILTER	1	
FL7904-11		ELKAW103EB	FILTER	8	
FL7912-15		ELKAW101GB	COIL 100UH	4	
FL7916		VLF0633	FILTER	1	
FL7918		ELKAW103EB	FILTER	1	
IC301		VEFH20B	IC	1	
IC302		MN3859S	IC	1	
IC303		AN1358S	IC	1	
IC701		M52014SP	IC	1	
IC801		VCR0383	IC	1	
IC802		M52352FP	IC	1	
IC2001		AN3727S	IC	1	
IC2002		UPD4053BG	IC	1	
IC2501		BA6219B	IC	1	
IC2502		LM358PS	IC	1	
IC2503		XRA6439S	IC	1	
IC2504		LM358PS	IC	1	
IC2505		LM393P	IC	1	
IC3001		AN3581S	IC	1	
IC3002		M52055FP	IC	1	
IC3301		M52083FP	IC	1	
IC3401		NJM2233BMA	IC	1	
IC3403		MN155202VZAM	IC	1	
IC3404		MN1280S	IC	1	
IC3405		UPD4066BG	IC	1	
IC3501		LC74760	IC	1	
IC3502		M52055FP	IC	1	
IC3503		NJM2246DA	IC	1	
IC3504		NJM2233BMA	IC	1	
IC3601		AN6308S	IC	1	
IC3901		M52475AP	IC	1	
IC3902		AN3916	IC	1	
IC3904		AN1393S	IC	1	
IC4001		NJM4565DD	IC	1	
IC4501		XLH7773AKS	IC	1	
IC4601		BA7755AF	IC	1	
IC4701		AN1358S	IC	1	
IC4702		MN4066BS	IC	1	
IC4901		LA7155M	IC	1	
IC4902		MN4066BS	IC	1	
IC6001		MN6755320H3W	IC	1	
IC6002		M38024V1BH	IC	1	
IC6003		MN1280S	IC	1	
IC6005		UPD4052BG	IC	1	
IC6008		TL431CLP	IC	1	
IC7301		TDA3803A	IC	1	
IC7302		TA8721SN	IC	1	
IC7401		M66006FP	IC	1	
IC7651		M52306FP	IC	1	
IC7901		TB1204F	IC	1	
IC7902		TA2009F	IC	1	
IC7903		M5238FP	IC	1	
J3901,02		VJS1470	21PIN SKIRT JACK	2	
L302		VLQ0188J180	COIL 18UH	1	
L304		VLQ0188J270	COIL 27UH	1	
L305		VLQ0188J101	COIL 100UH	1	
L306		VLQ0188J390	COIL 39UH	1	
L309-11		VLQ0188J330	COIL 33UH	3	
L312		ELESE121JA	COIL 120H	1	
L701		ELESQ680KA	COIL 68UH	1	
L711		ELQTR22XB	COIL 0.22UH	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
L718,19		ELESQ680KA	COIL 68UH	2	
L720		ELESQ150KA	COIL 15UH	1	
L781		VLQ0213K680	COIL 68UH	1	
L801,02		ELESE681KA	COIL 680UH	2	
L803		ELESE331KA	COIL H	1	
L804		VLQ0407101K	COIL 100UH	1	
L806		VLQ0407101K	COIL 100UH	1	
L807,08		VLQ0188J150	COIL 15UH	2	
L809		VLQ0188J330	COIL 33UH	1	
L810		VLQ0188J150	COIL 15UH	1	
L811		VLQ0188J151	COIL 150UH	1	
L812		VLQ0188J270	COIL 27UH	1	
L813,14		VLQ0188J150	COIL 15UH	2	
L2001		VLQ0569	COIL	1	
L2002		ERJ6GM2OR00	M.RESISTOR CH 1/10W 0	1	
L2501		VLP0074	COIL	1	
L2502		ELESE330KA	COIL	1	
L2503		ELESE102KA	COIL 1000UH	1	
L3001-03		VLQ0188J330	COIL 33UH	3	
L3004		VLQ0398	COIL	1	
L3301		VLQ0188J150	COIL 15UH	1	
L3304		VLQ0188J330	COIL 33UH	1	
L3306		VLQ0188J390	COIL 39UH	1	
L3307		VLQ0188J120	COIL 12UH	1	
L3308		VLQ0188J330	COIL 33UH	1	
L3309		VLQ0188J181	COIL 180UH	1	
L3310		VLQ0188J270	COIL 27UH	1	
L3313		ELESE681KA	COIL 680UH	1	
L3315,16		VLQ0188J5R6	COIL 5.6UH	2	
L3318		VLQ0188J330	COIL 33UH	1	
L3323		VLQ0188J330	COIL 33UH	1	
L3401		VLQ0188J150	COIL 15UH	1	
L3404		VLQ0188J220	COIL 22UH	1	
L3405		VLQ0188J330	COIL 33UH	1	
L3412		VLQ0188J330	COIL 33UH	1	
L3415		VLQ0188J120	COIL 12UH	1	
L3501		VLQ0188J330	COIL 33UH	1	
L3502		VLQ0188J5R6	COIL 5.6UH	1	
L3503		VLQ0188J100	COIL 10UH	1	
L3504		VLQ0188J390	COIL 39UH	1	
L3505		VLQ0188J820	COIL 82UH	1	
L3508		VLQ0188J330	COIL 33UH	1	
L3601		VLQELO5S120K	COIL 12UH	1	
L3602,03		VLQELO5S101K	COIL 100UH	2	
L3604		VLQELO5S151K	COIL H	1	
L3605		VLQELO5S820K	COIL 82UH	1	
L3901-04		ELESE101KA	COIL 100UH	4	
L3905		VLQ0188J1R0	COIL 1UH	1	
L4001,02		ELESE101KA	COIL 100UH	2	
L4501,02		ELESE101KA	COIL 100UH	2	
L4601		VLQELO7F153J	COIL 15MH	1	
L4701		ELESE471KA	COIL	1	
L4702		ELESE101KA	COIL 100UH	1	
L4901,02		ELESE102KA	COIL 1000UH	2	
L4903,04		ELESE101KA	COIL 100UH	2	
L4905,06		ELESE102KA	COIL 1000UH	2	
L4907,08		ELESE101KA	COIL 100UH	2	
L4909,10		ELESE102KA	COIL 1000UH	2	
L6001		VLP0083	COIL	1	
L6002		ELESE101KA	COIL 100UH	1	
L6003		VLP0083	COIL	1	
L6007,08		VLP0083	COIL	2	
L6009		ELESE101KA	COIL 100UH	1	
L7301		ELESQ102KA	COIL 1000UH	1	
L7401-03		VLQ0188J330	COIL 33UH	3	
L7404		VLQ0540J330	COIL 33UH	1	
L7405		VLQ0188J1R0	COIL 1UH	1	
L7901,02		VLP0083	COIL	2	
P1001		VJP2593	CONNECTOR (MALE)	1	
P1001		VJS2593	CONNECTOR (FEMALE)	1	
P1002		VJP1142	CONNECTOR (MALE) 3P	1	
P1002		VJS1142	CONNECTOR (FEMALE)	1	
P1102		VJS1932	CONNECTOR (FEMALE)	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
P1103		VJS1142	CONNECTOR (FEMALE)	1	
P1509		VJS1141	CONNECTOR (FEMALE)	1	
P2001		VJP1232T	CONNECTOR (MALE) 5P	1	
P2001		VJS1738T	CONNECTOR (FEMALE)	1	
P2003		VJP3502	CONNECTOR (MALE)	1	
P2003		VJS3482	CONNECTOR (FEMALE)	1	
P2004		VJS3537A015G	CONNECTOR (FEMALE) 15P	1	
P2902		VJS1738T	CONNECTOR (FEMALE)	1	
P3001		VJS3537A020G	CONNECTOR (FEMALE) 20P	1	
P3002		VJP3233A010	CONNECTOR (MALE) 10P	1	
P3002		VJS3366Z010	CONNECTOR (FEMALE) 10P	1	
P4001		VJS2331	CONNECTOR (FEMALE)	1	
P4002		VJP1238T	CONNECTOR (MALE) 11P	1	
P4002		VJS1744T	CONNECTOR (FEMALE)	1	
P4003		VJP1230T	CONNECTOR (MALE) 3P	1	
P4003		VJS1230	CONNECTOR (FEMALE)	1	
P6001		VJS3537A014G	CONNECTOR (FEMALE) 14P	1	
P6003		VJP1233T	CONNECTOR (MALE) 6P	1	
P6003		VJS1739T	CONNECTOR (FEMALE)	1	
P6502		VJS1744T	CONNECTOR (FEMALE)	1	
P7401,02		VJS3537A020G	CONNECTOR (FEMALE) 20P	2	
P7503		VJS3366Z010	CONNECTOR (FEMALE) 10P	1	
P7504		VJS1739T	CONNECTOR (FEMALE)	1	
PK7901,02		VJR0477	PACK PIN	2	
PP2001		VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP2002		VJP3042A010W	CONNECTOR (MALE) 10P	1	
PP3001		VJP3042A009W	CONNECTOR (MALE) 9P	1	
PP3002		VJP3042A012W	CONNECTOR (MALE) 12P	1	
PP3003		VJP3042A013W	CONNECTOR (MALE) 13P	1	
PP3011,12		VJP3042A018W	CONNECTOR (MALE) 18P	2	
PP3013		VJP3042A014W	CONNECTOR (MALE) 14P	1	
PP3021-24		VJP3043A012W	CONNECTOR (MALE) 12P	4	
PP3301		VJP3042A011W	CONNECTOR (MALE) 11P	1	
PP4001-03		VJP3186A018	CONNECTOR (MALE) 18P	3	
PP4501		VJP3042A017W	CONNECTOR (MALE) 17P	1	
PP7401-03		VJP3043A005W	CONNECTOR (MALE) 5P	3	
PP7404		VJP3043A006W	CONNECTOR (MALE) 6P	1	
PP7405		VJP3043A004W	CONNECTOR (MALE) 4P	1	
PP7406		VJP3043A010W	CONNECTOR (MALE) 10P	1	
PS301		VJS3042B009W	CONNECTOR (FEMALE) 9P	1	
PS302		VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS303		VJS3042B013W	CONNECTOR (FEMALE) 13P	1	
PS701-03		VJS3043B005W	CONNECTOR (FEMALE) 5P	3	
PS704		VJS3043B006W	CONNECTOR (FEMALE) 6P	1	
PS2001		VJS3042B012W	CONNECTOR (FEMALE) 12P	1	
PS2002		VJS3042B010W	CONNECTOR (FEMALE) 10P	1	
PS3021-24		VJS3043B012W	CONNECTOR (FEMALE) 12P	4	
PS3302,03		VJS3042B018W	CONNECTOR (FEMALE) 18P	2	
PS3501		VJS3042F014W	CONNECTOR (FEMALE) 14P	1	
PS3601		VJS3042B011W	CONNECTOR (FEMALE) 11P	1	
PS4001-03		VJS3186B018	CONNECTOR (FEMALE) 18P	3	
PS4701		VJS3042B017W	CONNECTOR (FEMALE) 17P	1	
PS7301,02		VJR0477	PACK PIN	2	
Q301		MSC2295	TRANSISTOR	1	
Q302		MSB709	TRANSISTOR	1	
Q303,04		MSC2295	TRANSISTOR	2	
Q305		MSD601	TRANSISTOR	1	
Q306		MSC2295	TRANSISTOR	1	
Q307,08		MSB709	TRANSISTOR	2	
Q703		MSD601-S	TRANSISTOR	1	
Q711		MSB709-R	TRANSISTOR	1	
Q712		2SD1996-R	TRANSISTOR	1	
Q714		MSD601-S	TRANSISTOR	1	
Q771		MSD601	TRANSISTOR	1	
Q801		2SA1022	TRANSISTOR	1	
Q802		MSC2295	TRANSISTOR	1	
Q803		MSB709	TRANSISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q1001		2SD1996	TRANSISTOR	1	
Q2001,02		MSB709	TRANSISTOR	2	
Q3001		MSD602	TRANSISTOR	1	
Q3002		2SB1322	TRANSISTOR	1	
Q3003		MSD601	TRANSISTOR	1	
Q3004		MSC2295	TRANSISTOR	1	
Q3005,06		MSD601	TRANSISTOR	2	
Q3301,02		MSC2295	TRANSISTOR	2	
Q3304,05		MSD601	TRANSISTOR	2	
Q3401,02		MSC2295	TRANSISTOR	2	
Q3403		MSD601	TRANSISTOR	1	
Q3404		MSC2295	TRANSISTOR	1	
Q3405-07		MSD601	TRANSISTOR	3	
Q3408		MSD602	TRANSISTOR	1	
Q3409		MSB710	TRANSISTOR	1	
Q3410-12		MSD601	TRANSISTOR	3	
Q3422		MSD1328	TRANSISTOR	1	
Q3423		MSD601	TRANSISTOR	1	
Q3424		MSB710	TRANSISTOR	1	
Q3425		MSC2295	TRANSISTOR	1	
Q3426,27		MSD601	TRANSISTOR	2	
Q3501		MSD601	TRANSISTOR	1	
Q3502		MSB709	TRANSISTOR	1	
Q3601		MSD601	TRANSISTOR	1	
Q3602,03		MSC2295	TRANSISTOR	2	
Q3604		MSB709	TRANSISTOR	1	
Q3901,02		2SD1991A	TRANSISTOR	2	
Q3903		MSD1328	TRANSISTOR	1	
Q3904		MSD601	TRANSISTOR	1	
Q3905		MSC2295	TRANSISTOR	1	
Q3906		MSB709	TRANSISTOR	1	
Q3907		MSD601	TRANSISTOR	1	
Q3912		2SD1996	TRANSISTOR	1	
Q3913-15		MSD601	TRANSISTOR	3	
Q3916		MSB710	TRANSISTOR	1	
Q3917		MSD602	TRANSISTOR	1	
Q3918		MSB710	TRANSISTOR	1	
Q4501		2SD655	TRANSISTOR	1	
Q4551		2SB561	TRANSISTOR	1	
Q4552		2SD1819A	TRANSISTOR	1	
Q4601,02		2SD1819A	TRANSISTOR	2	
Q4701		2SD602A-R	TRANSISTOR	1	
Q4702,03		MSD601	TRANSISTOR	2	
Q4704,05		MSB710	TRANSISTOR	2	
Q4706		2SB1378	TRANSISTOR	1	
Q4707		2SD601A	TRANSISTOR	1	
Q4708		2SB1378	TRANSISTOR	1	
Q6001		2SD1991A	TRANSISTOR	1	
Q6002		MSB709	TRANSISTOR	1	
Q6003		2SD1915F	TRANSISTOR	1	
Q6004-06		MSD601	TRANSISTOR	3	
Q6008		2SD1991	TRANSISTOR	1	
Q7301		MSD601-S	TRANSISTOR	1	
Q7304,05		MSD601	TRANSISTOR	2	
Q7306		2SC2404	TRANSISTOR	1	
Q7307		2SD1328-S	TRANSISTOR	1	
Q7901,02		MSD601	TRANSISTOR	2	
Q7903		2SC3931CD	TRANSISTOR	1	
Q7904-07		2SB1219	TRANSISTOR	4	
Q7908,09		2SC3929	TRANSISTOR	2	
Q7910,11		2SD1820	TRANSISTOR	2	
Q7912		2SB1219	TRANSISTOR	1	
Q7913		2SB1218-Q	TRANSISTOR	1	
Q7914,15		2SD1979-S	TRANSISTOR	2	
Q7916,17		2SB1219	TRANSISTOR	2	
QR301		MRN1402	TRANSISTOR-RESISTOR	1	
QR302		MRN1403	TRANSISTOR-RESISTOR	1	
QR303		MRN1404	TRANSISTOR-RESISTOR	1	
QR304		MRN1402	TRANSISTOR-RESISTOR	1	
QR305		MRN2404	TRANSISTOR-RESISTOR	1	
QR306		XN6213	TRANSISTOR-RESISTOR	1	
QR307		MRN1404	TRANSISTOR-RESISTOR	1	
QR308		MRN1407	TRANSISTOR-RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR309		MRN1402	TRANSISTOR-RESISTOR	1	
QR310		MRN1404	TRANSISTOR-RESISTOR	1	
QR311		MRN2404	TRANSISTOR-RESISTOR	1	
QR312		MRN2402	TRANSISTOR-RESISTOR	1	
QR313,14		MRN1404	TRANSISTOR-RESISTOR	2	
QR315		MRN2404	TRANSISTOR-RESISTOR	1	
QR316,17		XN6213	TRANSISTOR-RESISTOR	2	
QR318		MRN1402	TRANSISTOR-RESISTOR	1	
QR319,20		MRN1404	TRANSISTOR-RESISTOR	2	
QR701		MRN1407	TRANSISTOR-RESISTOR	1	
QR702		MRN1404	TRANSISTOR-RESISTOR	1	
QR703		MRN2403	TRANSISTOR-RESISTOR	1	
QR704		MRN1404	TRANSISTOR-RESISTOR	1	
QR802		MRN1404	TRANSISTOR-RESISTOR	1	
QR803		MRN1403	TRANSISTOR-RESISTOR	1	
QR805		MRN1404	TRANSISTOR-RESISTOR	1	
QR806		XN6213	TRANSISTOR-RESISTOR	1	
QR1001,02		MRN1402	TRANSISTOR-RESISTOR	2	
QR2001		XN1213	TRANSISTOR-TRANSISTOR	1	
QR2002		MRN2404	TRANSISTOR-RESISTOR	1	
QR2501		XN1211	TRANSISTOR-RESISTOR	1	
QR3001,02		MRN1403	TRANSISTOR-RESISTOR	2	
QR3003		MRN2402	TRANSISTOR-RESISTOR	1	
QR3301-04		DTC363EK	TRANSISTOR-RESISTOR	4	
QR3305		UN211D	TRANSISTOR-RESISTOR	1	
QR3306		DTC363EK	TRANSISTOR-RESISTOR	1	
QR3307		MRN1404	TRANSISTOR-RESISTOR	1	
QR3402		MRN2402	TRANSISTOR-RESISTOR	1	
QR3403		MRN1403	TRANSISTOR-RESISTOR	1	
QR3404		XN4212	TRANSISTOR-TRANSISTOR	1	
QR3405		MRN1403	TRANSISTOR-RESISTOR	1	
QR3406-08		XN1212	TRANSISTOR-RESISTOR	3	
QR3409,10		MRN1403	TRANSISTOR-RESISTOR	2	
QR3411		MRN1402	TRANSISTOR-RESISTOR	1	
QR3412		MRN1404	TRANSISTOR-RESISTOR	1	
QR3415		XN4212	TRANSISTOR-TRANSISTOR	1	
QR3416		XN1212	TRANSISTOR-RESISTOR	1	
QR3417		XN4212	TRANSISTOR-TRANSISTOR	1	
QR3418		MRN1402	TRANSISTOR-RESISTOR	1	
QR3901-03		MRN1404	TRANSISTOR-RESISTOR	3	
QR3904,05		MRN1402	TRANSISTOR-RESISTOR	2	
QR3906		MRN1404	TRANSISTOR-RESISTOR	1	
QR4001		MRN1403	TRANSISTOR-RESISTOR	1	
QR4002,03		DTC363EK	TRANSISTOR-RESISTOR	2	
QR4004,05		MRN1404	TRANSISTOR-RESISTOR	2	
QR4508,09		UN5113	TRANSISTOR-RESISTOR	2	
QR4510		UN5212	TRANSISTOR-RESISTOR	1	
QR4602		UN5111	TRANSISTOR-RESISTOR	1	
QR4603		UN5213	TRANSISTOR-RESISTOR	1	
QR4701-03		MRN1403	TRANSISTOR-RESISTOR	3	
QR4704		MRN1404	TRANSISTOR-RESISTOR	1	
QR4901		MRN1404	TRANSISTOR-RESISTOR	1	
QR4902		UN211D	TRANSISTOR-RESISTOR	1	
QR6001		MRN1402	TRANSISTOR-RESISTOR	1	
QR6002,03		MRN2402	TRANSISTOR-RESISTOR	2	
QR6004		MRN1402	TRANSISTOR-RESISTOR	1	
QR6009		XN1213	TRANSISTOR-TRANSISTOR	1	
QR6012		MRN1404	TRANSISTOR-RESISTOR	1	
QR6013		MRN1403	TRANSISTOR-RESISTOR	1	
QR6014		MRN1404	TRANSISTOR-RESISTOR	1	
QR6015		MRN2402	TRANSISTOR-RESISTOR	1	
QR7301,02		MRN1404	TRANSISTOR-RESISTOR	2	
QR7312-14		MRN1402	TRANSISTOR-RESISTOR	3	
QR7315,16		MRN1404	TRANSISTOR-RESISTOR	2	
QR7901,02		UN5213	TRANSISTOR-RESISTOR	2	
QR7903		UN5112	TRANSISTOR-RESISTOR	1	
QR7904		UN5214	TRANSISTOR-RESISTOR	1	
QR7905,06		UN5213	TRANSISTOR-RESISTOR	2	
R301		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R303		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R304		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R305		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R306		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R307		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R308		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R309		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R310		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R311		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R312		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R313		ERJ6GMYJ361	M.RESISTOR CH 1/10W 360	1	
R314		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R315		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R316		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R317		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R318		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R319		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R320		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R321		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R322		ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R323		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R324		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R325		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R326		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R327		ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R328		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R329		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R330		ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R331		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R332		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R333		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R334		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R335		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R336		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R337		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R338,39		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R340		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R341		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R342		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R343		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R344		ERJ6GMYJ911	M.RESISTOR CH 1/10W 910	1	
R345		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R346		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R347		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R348		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R349		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R350		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R351		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R352		ERJ6GMYG183	M.RESISTOR CH 1/10W 18K	1	
R353		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R354		ERJ6GMYG753	M.RESISTOR CH 1/10W 75K	1	
R355		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R356		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R357		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R358		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R359		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R360,61		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R362		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R363		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R716		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R719		ERJ6GEYJ105	M.RESISTOR CH 1/10W 1M	1	
R720		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R721		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R724		ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R725		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R727		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R728		ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R730		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R731		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R732		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R736		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R737		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R740		ERJ6GEYJ394	M.RESISTOR CH 1/10W 390K	1	
R742		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R743		ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R744		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R745		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R746		ERDS2TJ151	C.RESISTOR 1/4W 150	1	
R750		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R758		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R763		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R772		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R773		ERJ6GEYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R774		ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R779		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R781		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R790		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R793		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R794		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R796		ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	1	
R797		ERJ6GEYJ391	M.RESISTOR CH 1/10W 390	1	
R798		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R799		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R802		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R803		ERJ6GMYG242	M.RESISTOR CH 1/10W 2.4K	1	
R804,05		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R809		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R810,11		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R814		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R815		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R816		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R817		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R818		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R820		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R821,22		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R824		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R825		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R826		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R827		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R828		ERJ6GMYJ204	M.RESISTOR CH 1/10W 200K	1	
R829		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R830		ERJ6GMYJ154	M.RESISTOR CH 1/10W 150K	1	
R831		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R832		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R833		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R834		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R835,36		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R837		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R838,39		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R840		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R841		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R842,43		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R844		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R845		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R846		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R847		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R848		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R849		ERJ6GMYK395	M.RESISTOR CH 1/10W 3.9M	1	
R850		ERJ6GMYJ302	M.RESISTOR CH 1/10W 3K	1	
R851,52		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R853		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R1001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R1002		ERDS1TJ822	C.RESISTOR 1/2W 8.2K	1	
R2004		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2005		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R2011		ERJ6GMYG222	M.RESISTOR CH 1/10W 2.2K	1	
R2012		ERJ6GMYG392	M.RESISTOR CH 1/10W 3.9K	1	
R2013,14		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R2015		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R2016		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R2018		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R2019		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R2501		ERX1SJ1R8	M.RESISTOR 1W 1.8	1	
R2502		ERJ6GMYG112	M.REISITOR CH 1/10W 1.1K	1	
R2503		ERJ6GMYG102	M.RESISTOR CH 1/10W 1K	1	
R2504		ERJ6GMYG332	M.RESISTOR CH 1/10W 3.3K	1	
R2505		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2506		ERJ6GMYJ564	M.RESISTOR CH 1/10W 560K	1	
R2507		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R2508		VRE0034E512	M.RESISTOR CH 1/10W 5.1K	1	
R2509		VRE0034E472	M.RESISTOR CH 1/10W 4.7K	1	
R2510		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2511		ERJ6GMYJ684	M.RESISTOR CH 1/10W 680K	1	
R2513		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R2514		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R2515		ERG12SJ561	M.RESISTOR 1/2W 560	1	
R2516		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R2517		ERX12SJR47	M.RESISTOR CH 1/2W 0.47	1	
R2518		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2519		ERJ6GMYG432	M.RESISTOR CH 1/10W 4.3K	1	
R2520		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R2521-23		ERDS2TJ560	C.RESISTOR 1/4W 56	3	
R2524		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R2525		EROS2CKG6800	M.RESISTOR 1/4W 680	1	
R2526		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2527		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2528		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R2529		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R2530		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2531,32		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	2	
R2533		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2534		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R2535		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R2536		ERJ6GMYJ824	M.RESISTOR CH 1/10W 820K	1	
R2537		ERJ6GMYJ393	M.RESISTOR CH 1/10W 39K	1	
R2538		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R2539		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	1	
R2540		ERJ6GMYJ105	M.RESISTOR CH 1/10W 1M	1	
R2541		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R3001,02		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3003		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3004		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	1	
R3005		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3006,07		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3008		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3009		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3010		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3011		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3012		ERJ6GMYG911	M.RESISTOR CH 1/10W 910	1	
R3013		ERJ6GMYG102	M.RESISTOR CH 1/10W 1K	1	
R3014		ERJ6GMYG471	M.RESISTOR CH 1/10W 470	1	
R3015		ERJ6GMYG102	M.RESISTOR CH 1/10W 1K	1	
R3016		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3017		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3018		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R3019		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3021		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3022		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R3023		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3024		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R3025		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R3026,27		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R3301		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3302		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3303		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3304		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3305		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3306		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3307		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3308		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3310		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3322		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3323		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3324		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3325,26		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3327		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3328		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3333		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3334		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3335		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3336,37		ERJ6GMYJ681	M.RESISTOR CH 1/10W 680	2	
R3338		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3339		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3340		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3341		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R3342		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3345-47		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	3	
R3352		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3353		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3401		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3402		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3403		ERJ6GMYG361	M.RESISTOR CH 1/10W 360	1	
R3404		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3405		ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R3406		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R3407		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3408		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R3409		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R3410		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3411-13		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	3	
R3415		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3417		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3422		ERJ6GMYG333	M.RESISTOR CH 1/10W 33K	1	
R3423		ERJ6GMYG683	M.RESISTOR CH 1/10W 68K	1	
R3424		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3425		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3426		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R3427		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3428		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R3429		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3430		ERJ6GMYJ823	M.RESISTOR CH 1/10W 82K	1	
R3431		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R3433		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3434		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3435		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R3436		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3437		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R3438		ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R3441		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3442		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3443		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R3444,45		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R3446,47		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3463		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3464		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3465		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3466		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3467		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R3468,69		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R3470		ERJ6GMYG123	M.RESISTOR CH 1/10W 12K	1	
R3471		ERJ6GMYG512	M.RESISTOR CH 1/10W 5.1K	1	
R3472		ERJ6GMYG272	M.RESISTOR CH 1/10W 2.7K	1	
R3473		ERJ6GMYG302	M.RESISTOR CH 1/10W 3K	1	
R3474		ERJ6GMYG821	M.RESISTOR CH 1/10W 820	1	
R3475		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3476		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3477,78		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R3479		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3501		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3502		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3503		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3504,05		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R3506		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R3507		ERJ6GMYG103	M.RESISTOR CH 1/10W 10K	1	
R3508		ERJ6GMYG332	M.RESISTOR CH 1/10W 3.3K	1	
R3509-11		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R3513,14		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R3515		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3516		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3517		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3518		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3519		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3520		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3521		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3522		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3523		ERJ6GMYJ122	M.RESISTOR CH 1/10W 1.2K	1	
R3524		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3525		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R3526		ERJ6GMYJ470	M.RESISTOR CH 1/10W 47	1	
R3601		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3602		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3603		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3604		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3605		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R3606		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R3607-12		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R3613		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3614		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3616		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R3901-05		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	5	
R3906		ERDS1TJ750	C.RESISTOR 1/2W 75	1	
R3908,09		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	2	
R3910,11		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	2	
R3912,13		ERJ6GMYJ151	M.RESISTOR CH 1/10W 150	2	
R3914		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3915		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R3916,17		ERDS2TJ181	C.RESISTOR 1/4W 180	2	
R3926		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3927,28		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R3929		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R3930		ERJ6GMYJ112	M.RESISTOR CH 1/10W 1.1K	1	
R3931		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R3932		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R3933		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R3934		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3935		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R3936		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3938		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R3945		ERJ6GMYJ561	M.RESISTOR CH 1/10W 560	1	
R3946		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R3950,51		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	2	
R3953		ERDS2TJ562	C.RESISTOR 1/4W 5.6K	1	
R3954		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R3955		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R3956		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R3957-60		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	4	
R3961		ERJ6GMYJ750	M.RESISTOR CH 1/10W 75	1	
R3962		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R3963		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3964		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R3965		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R3966		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R3967		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R3968		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4001,02		ERDS2TJ680	C.RESISTOR 1/4W 68	2	
R4003-08		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	6	
R4009		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R4010		ERJ6GMYG433	M.RESISTOR CH 1/10W 43K	1	
R4011		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4012		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R4013		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R4014		ERJ6GMYG100	M.RESISTOR CH 1/10W 10	1	
R4015		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R4020		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4021		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4022		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R4028		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4029,30		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R4033		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R4034		ERJ6GMYG393	M.RESISTOR CH 1/10W 39K	1	
R4035		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	1	
R4036		ERJ6GMYG393	M.RESISTOR CH 1/10W 39K	1	
R4501,02		ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R4503		ERJ3GEYG223	M.RESISTOR CH 1/16W 22K	1	
R4504,05		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4506,07		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4508		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4509		ERJ3GEYJ622	M.RESISTOR CH 1/16W 6.2K	1	
R4511		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4512		VRE0071E163	M.RESISTOR CH 1/10W 16K	1	
R4513		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4514,15		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4518,19		ERJ3GEYOR00	M.RESISTOR CH 1/16W 0	2	
R4522		ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	
R4527		VRE0071E333	M.RESISTOR CH 1/10W 33K	1	
R4528		VRE0071E153	M.RESISTOR CH 1/10W 15K	1	
R4529		ERJ3GEYG562	M.RESISTOR CH 1/16W 5.6K	1	
R4530		ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R4534		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4535		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4539		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4541		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4542		ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4543		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4551,52		ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	2	
R4553,54		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4558		ERJ3GEYG224	M.RESISTOR CH 1/16W 220K	1	
R4561		ERJ3GEYG273	M.RESISTOR CH 1/16W 27K	1	
R4562		VRE0034E10C	M.RESISTOR CH 1/10W	1	
R4563		ERJ3GEYG272	M.RESISTOR CH 1/16W 2.7K	1	
R4568,69		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4573		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4577		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4578		VRE0071E473	M.RESISTOR CH 1/10W 47K	1	
R4581		ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4583		ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R4584		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4585		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4586		ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R4587,88		ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R4591		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4592		ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R4593		ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R4594		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4596		ERJ3GEYG473	M.RESISTOR CH 1/16W 47K	1	
R4597		ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4598,99		ERJ3GEYG104	M.RESISTOR CH 1/16W 100K	2	
R4603		ERJ3GEYG183	M.RESISTOR CH 1/16W 18K	1	
R4606		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4610		ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4611		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4612		ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R4613		ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R4615		ERJ3GEYJ133	M.RESISTOR CH 1/16W 13K	1	
R4616		ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4638		ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4649		ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4651		ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4652		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4653		ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4654		ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4655		ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4656		ERJ3GEYG243	M.RESISTOR CH 1/16W 24K	1	
R4657		ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4666		ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R4671		ERJ3GEYG103	M.RESISTOR CH 1/16W 10K	1	
R4701		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R4702		ERJ6GMYJ821	M.RESISTOR CH 1/10W 820	1	
R4703		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R4704,05		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	2	
R4706		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4707		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R4708		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4709		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4710		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4711		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R4712		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4713		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4714		ERJ6GMYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R4715		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R4716		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R4717		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R4718		ERJ6GMYG753	M.RESISTOR CH 1/10W 75K	1	
R4719		ERJ6GMYG203	M.RESISTOR CH 1/10W 20K	1	
R4720,21		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R4722		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R4723		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R4724,25		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R4726		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R4901,02		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	2	
R4903,04		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4905,06		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	2	
R4907,08		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R4909,10		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R4915-18		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	4	
R4921		ERJ6GMYG163	M.RESISTOR CH 1/10W 16K	1	
R4922,23		ERJ6GMYG433	M.RESISTOR CH 1/10W 43K	2	
R4924		ERJ6GMYG163	M.RESISTOR CH 1/10W 16K	1	
R4925		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4926		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R4927,28		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	2	
R4929		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	1	
R4930		ERJ6GMYG473	M.RESISTOR CH 1/10W 47K	1	
R4931		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R6001		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6002,03		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6004		ERDS2CKG2000	M.RESISTOR 1/4W 200	1	
R6005		ERJ6GMYJ471	M.RESISTOR CH 1/10W 470	1	
R6006		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6007-09		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	3	
R6010,11		ERJ6GMYG223	M.RESISTOR CH 1/10W 22K	2	
R6012		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6013		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6015,16		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6017		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6018		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6019		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6020,21		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6022-24		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	3	
R6025		ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R6027		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6028		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6029		ERJ6GMYJ183	M.RESISTOR CH 1/10W 18K	1	
R6030		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R6031		ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6032,33		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R6034		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6035		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R6036		ERJ6GMYJ123	M.RESISTOR CH 1/10W 12K	1	
R6037,38		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	2	
R6039,40		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6041		ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	1	
R6042		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6044-49		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	6	
R6050		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6051		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R6052		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6053		ERJ6GMYJ682	M.RESISTOR CH 1/10W 6.8K	1	
R6054		ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6055		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R6056,57		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	2	
R6058,59		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6060		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6061,62		ERJ6GMYJ683	M.RESISTOR CH 1/10W 68K	2	
R6063		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R6064		ERJ6GMYJ104	M.RESISTOR CH 1/10W 1M	1	
R6066		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6067		ERJ6GMYJ181	M.RESISTOR CH 1/10W 180	1	
R6068-70		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R6071		ERDS2TJ391	C.RESISTOR 1/4W 390	1	
R6074		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6075		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6076		ERJ6GMYJ563	M.RESISTOR CH 1/10W 56K	1	
R6077		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6078		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6079		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6081		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6082		ERJ6GMYJ223	M.RESISTOR CH 1/10W 22K	1	
R6083-86		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	4	
R6087,88		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	2	
R6089,90		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6091		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6092,93		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	2	
R6094,95		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	2	
R6096		ERJ6GMYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R6097,98		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	2	
R6099		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R6100		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6101		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R6102,03	ERJ6GMYJ272	M.RESISTOR CH 1/10W 2.7K	2	
R6104	ERJ6GMZ0R00	M.RESISTOR CH 1/10W 0	1	
R6106,07	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R6108	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6109	ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R6110	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6112	ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R6113	ERJ6GMYJ472	M.RESISTOR CH 1/10W 4.7K	1	
R6114	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6116	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6118	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6120	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6122	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6123	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R6124	ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R6125	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7302	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7303	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7304	ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7305	ERJ6GEYJ822	M.RESISTOR CH 1/10W 8.2K	1	
R7306	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7307	ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7308	ERJ6GEYJ273	M.RESISTOR CH 1/10W 27K	1	
R7309	ERDS2TJ102	C.RESISTOR 1/4W 1K	1	
R7310	ERJ6GEYJ474	M.RESISTOR CH 1/10W 470K	1	
R7311	ERJ6GEYJ562	M.RESISTOR CH 1/10W 5.6K	1	
R7312	ERJ6GEYJ563	M.RESISTOR CH 1/10W 56K	1	
R7313	ERJ6GEYJ824	M.RESISTOR CH 1/10W 820K	1	
R7314,15	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	2	
R7316	ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	1	
R7317	ERJ6GEYJ393	M.RESISTOR CH 1/10W 39K	1	
R7318	ERJ6GEYJ153	M.RESISTOR CH 1/10W 15K	1	
R7321	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7322	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7323	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7324,25	ERJ6GEYJ271	M.RESISTOR CH 1/10W 270	2	
R7329	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7330	ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R7334-37	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	4	
R7338	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7339	ERJ6GEYJ330	M.RESISTOR CH 1/10W 33	1	
R7340	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7341	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7342	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7345	ERJ6GEYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R7346	ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
R7347	ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7348	ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	1	
R7349	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7351-53	ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	3	
R7354,55	ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	2	
R7403	ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R7407,08	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	2	
R7410-12	ERJ6GMYJ221	M.RESISTOR CH 1/10W 220	3	
R7413-19	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	7	
R7420	ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7421-23	ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7651	ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7652	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R7653	ERJ6GEYF124	M.RESISTOR CH 1/10W 120K	1	
R7654	ERJ6GEYJ223	M.RESISTOR CH 1/10W 22K	1	
R7655	ERJ6GEYJ334	M.RESISTOR CH 1/10W 330K	1	
R7676	ERG1SJ152	M.RESISTOR 1W 1.5K	1	
R7901	ERJ3GEYJ471	M.RESISTOR CH 1/16W 470	1	
R7902	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R7903	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7904	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7905	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	1	
R7906	ERJ6GEYJ150	M.RESISTOR CH 1/10W 15	1	
R7907	ERJ6GEYJ561	M.RESISTOR CH 1/10W 560	1	
R7908	ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R7909-12	ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	4	
R7913-15	ERJ3GEYJ682	M.RESISTOR CH 1/16W 6.8K	3	
R7917	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R7918-21	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R7922	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R7923	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R7924-26	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R7927	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R7928	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7929	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R7930	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R7931-33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R7934	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R7935	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	1	
R7936	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R7937	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R7938	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R7939	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R7940	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R7941	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R7942	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R7943	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R7944	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R7945	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R7946,47	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R7948	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7949	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R7950	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7951,52	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	2	
R7953	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7954,55	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	2	
R7956	ERJ3GEYJ822	M.RESISTOR CH 1/16W 8.2K	1	
R7957	ERJ3GEYJ472	M.RESISTOR CH 1/16W 4.7K	1	
R7958,59	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	2	
R7960,61	ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R7964	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R7965-72	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	8	
R7973-77	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	5	
R7978	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7979	ERJ3GEYJ152	M.RESISTOR CH 1/16W 1.5K	1	
R7980	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R7981,82	ERJ3GEYJ102	M.RESISTOR CH 1/16W 1K	2	
R7983,84	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R7985,86	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R7987	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R7988	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R7989	ERDS2TJ823	C.RESISTOR 1/4W 82K	1	
RX3401	EXBF8E102J	RESISTOR-RESISTOR	1	
SW3901	VSS0385	SWITCH	1	
T703	EIV5EC057A	TRANSFORMER	1	
T704	EIV5EC006A1	TRANSFORMER	1	
T4701	VLT0695	TRANSFORMER	1	
T4702	VLT0696	TRANSFORMER	1	
T7301	EIR7QG001B	TRANSFORMER	1	
T7302,03	EIL7QH012Q	TRANSFORMER	2	
T7304	EIS5EC017A	TRANSFORMER	1	
T7305	EQS5EC033A	TRANSFORMER	1	
TR	VJS3481	CONNECTOR (FEMALE)	1	
VR301	EVN49CA00B23	V.RESISTOR 2K	1	
VR302	EVN49CA00B13	V.RESISTOR	1	
VR303	EVNCBAA00B13	V.RESISTOR	1	
VR304	EVN49CA00B13	V.RESISTOR	1	
VR701	EVMEASA00B53	V.RESISTOR	1	
VR741	EVNCBAA00B14	V.RESISTOR	1	
VR801,02	EVMEASA00B13	V.RESISTOR	2	
VR803	EVMEASA00B14	V.RESISTOR	1	
VR804	EVN49CA00B53	V.RESISTOR	1	
VR2001-05	EVNCYAA03B54	V.RESISTOR	5	
VR3001-03	EVNCYAA03B23	V.RESISTOR	3	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
VR3301		EVMEASA00B24	V.RESISTOR	1	
VR3302		EVN49CA00B54	V.RESISTOR	1	
VR3304,05		EVN49CA00B52	V.RESISTOR 500	2	
VR3307		EVN49CA00B54	V.RESISTOR	1	
VR3901		EVMEASA00B24	V.RESISTOR	1	
VR4002		EVNCYAA03B25	V.RESISTOR	1	
VR4501		EVMECSA00B53	V.RESISTOR	1	
VR4502		EVMEASA00BY4	V.RESISTOR	1	
VR4507		EVMEASA00BY4	V.RESISTOR	1	
VR4509		EVMECSA00BY3	V.RESISTOR	1	
VR4512		EVNCBAA00B52	V.RESISTOR	1	
VR4550		EVMECSA00B14	V.RESISTOR	1	
VR4551,52		EVMEASA00B55	V.RESISTOR	2	
VR7301		EVMEASA00B14	V.RESISTOR	1	
VR7326		EVMEASA00B52	V.RESISTOR	1	
VR7328		EVMEASA00B52	V.RESISTOR	1	
VR7340		EVNCBAA00B14	V.RESISTOR	1	
VR7342		EVNCBAA00B53	V.RESISTOR	1	
VR7344		EVNCBAA00B14	V.RESISTOR	1	
VR7660		EVNCBAA00B15	V.RESISTOR	1	
VR7901,02		EVNCBAA00B14	V.RESISTOR	2	
VR7903		EVTEASA00B55	V.RESISTOR	1	
X710		EFCH38MGQ1	CRYSTAL OSCILLATOR	1	
X713		EFCS5R5MW5	CRYSTAL OSCILLATOR	1	
X801		VSX0406	CRYSTAL OSCILLATOR	1	
X3302		EF0GC3584A5	CRYSTAL OSCILLATOR	1	
X3501		VSX0574	CRYSTAL OSCILLATOR	1	
X6001		VSX0583	CRYSTAL OSCILLATOR	1	
X6002		EF0EC7374T4E	CRYSTAL OSCILLATOR	1	
X7001		VSQ0565	CRYSTAL OSCILLATOR	1	
X7301,02		EFCT5R5MS5	CRYSTAL OSCILLATOR	2	
X7303,04		EFCS5R74MS5B	CRYSTAL OSCILLATOR	2	
X7305		ELB5A016	CRYSTAL OSCILLATOR	1	
X7901		VSX0514	CRYSTAL OSCILLATOR	1	
X7902		VSX0512	CRYSTAL OSCILLATOR	1	
X7903		EFCA5504BF	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VEK6605	EARTH WIRE	1	(TV DEMODU-POWER SHILED CASE)
		VJH0683	RF ANT TERMINA PLATE	1	
		VEE8682	WIRE CABLE	1	(P1001-P1102)
		VEE8683	WIRE CABLE	1	(P1002-P1103)
		VEE8688	WIRE CABLE	1	(P2001-P2902)
		VEE9001	WIRE CABLE	1	(POWER TR.-P2003)
		VEE8685	WIRE CABLE	1	(P4002-P6502)
		VEE8686	WIRE CABLE	1	(P6003-P7504)
		VEE8837	WIRE CABLE	1	(P3002-P7503)
		VWJ0775	FLAT CARD CABLE	1	(P2004-P1507)
		VWJ0776	FLAT CARD CABLE	1	(P3001-P501)
		VWJ0778	FLAT CARD CABLE	1	(P7401-P7501)
		VWJ0801	FLAT CARD CABLE	1	(P7402-P7502)
		VMA6768	EARTH ANGLE	1	
		VJF1031	CLAMPER	1	
		VEE8687	WIRE CABLE	1	(P4003-P1509)
		ENV578D7H6	TUNER	1	<!>FOR TV DEMODU.
		ENC17984	RF CONVERTER	1	<!>FOR TV DEMODU.
		VSC4025	SHILED COVER (MAIN)	1	FOR TV DEMODULATOR
		VSC3241	SHILED COVER (TOP)	1	FOR TV DEMODULATOR
		VMX2233	SPACER	1	FOR SUB LUMI. & CHRO.
		VEJ1438	REAR JACK PLATE	1	FOR I/O PACK C.B.A.
		XTV3+8GFZ	SCREW	4	FOR I/O PACK C.B.A.
		VSC3553	SHIELD COVER (MAIN)	1	FOR NICAM DECORDER
		VSC3554	SHIELD COVER (TOP)	1	FOR NICAM DECORDER
		VSC3555	SHIELD COVER (BOTTOM)	1	FOR NICAM DECORDER
	■	VEP05176G	HEAD AMP C.B.A.		(RTL)
C503		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C505-08		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	4	
C509		ECUM1H332KBN	C.CAPACITOR CH 50V 3300P	1	
C510,11		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C512		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C513		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C514		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C515,16		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C517,18		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C519,20		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C521		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C523-25		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C526		VCEA0JAC221	E.CAPACITOR 6.3V 220U	1	
C527		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C531		ECUM1H330JCN	C.CAPACITOR CH 50V 33P	1	
C532		ECUM1H560JCN	C.CAPACITOR CH 50V 56P	1	
C533,34		ECUM1H121JCN	C.CAPACITOR CH 50V 120P	2	
C535		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C536		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C537		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C538,39		ECUM1H680JCN	C.CAPACITOR CH 50V 68P	2	
C540		ECEA1CK470	E.CAPACITOR 16V 47U	1	
C551		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C552-54		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	3	
C555		ECEA0JPK221	E.CAPACTIOR 6.3V 220U	1	
C556,57		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C559		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C560,61		ECUM1H471JCN	C.CAPACITOR CH 50V 470P	2	
C562,63		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
C564		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C565		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	1	
C566		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C567		ECUM1H102KBN	C.CAPACITOR CH 50V 1000P	1	
C569		ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
IC501		AN3336SB	IC	1	
IC502		AN3370K	IC	1	
IC551		BA7743FS	IC	1	
L501-03		VLQ0540K330	COIL 33UH	3	
L504		VLQ0540J5R6	COIL 5.6UH	1	
L551,52		VLQ0540K330	COIL 33UH	2	
P501		VJS3537B020G	CONNECTOR (FEMALE) 20P	1	
P502		VJS2603	CONNECTOR (FEMALE)	1	
Q501		MSB709	TRANSISTOR	1	
Q502		MSD601	TRANSISTOR	1	
QR501		MRN2404	TRANSISTOR-RESISTOR	1	
R501		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	1	
R502		ERJ6GEYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R503		ERJ6GMYG752	M.RESISTOR CH 1/10W 7.5K	1	
R504		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R505		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R506		ERJ6GMYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R507		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R508		ERJ6GMYJ331	M.RESISTOR CH 1/10W 330	1	
R509-12		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	4	
R513		ERJ6GMYJ103	M.RESISTOR CH 1/10W 10K	1	
R514		ERJ6GMYJ274	M.RESISTOR CH 1/10W 270K	1	
R517		ERJ6GMYJ100	M.RESISTOR CH 1/10W 10	1	
R518,19		ERJ6GMYJ101	M.RESISTOR CH 1/10W 100	2	
R520		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R521,22		ERJ6GMYJ822	M.RESISTOR CH 1/10W 8.2K	2	
R523		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	1	
R524		VRE0034E182	M.RESISTOR CH 1/10W 1.8K	1	
R525		VRE0034E103	M.RESISTOR CH 1/10W 10K	1	
R526		ERJ6GMYG133	M.RESISTOR CH 1/10W 13K	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R551		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R552		ERJ6GMYJ391	M.RESISTOR CH 1/10W 390	1	
R553		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R554		ERJ6GMYJ243	M.RESISTOR CH 1/10W 24K	1	
R556		ERJ6GMYJ333	M.RESISTOR CH 1/10W 33K	1	
R557		ERJ6GMYJ182	M.RESISTOR CH 1/10W 1.8K	1	
R558		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R559,60		ERJ6GMYJ152	M.RESISTOR CH 1/10W 1.5K	2	
R561		ERJ6GMYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R562		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
R563		VRED034E100	M.RESISTOR CH 1/10W 10	1	
R564		ERJ6GMYJ224	M.RESISTOR CH 1/10W 220K	1	
R565		ERJ6GMYJ473	M.RESISTOR CH 1/10W 47K	1	
R566		ERJ6GMYJ273	M.RESISTOR CH 1/10W 27K	1	
R567		ERJ6GMYJ153	M.RESISTOR CH 1/10W 15K	1	
R568		ERJ6GMYJ271	M.RESISTOR CH 1/10W 270	1	
R569		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R570		ERJ6GMYJ102	M.RESISTOR CH 1/10W 1K	1	
			MISCELLANEOUS		
		VSC3714	SHILED COVER (TOP)	1	
		VSC3478	SHILED COVER (MAIN)	1	
		VSC3715	SHILED COVER (BOTTOM)	1	
	■	VEP06926C	VR C.B.A.		(RTL)
C6501,02		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	2	
C6503,04		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	2	
C6505		ECEA1HKA3R3	E.CAPACITOR 50V 3.3U	1	
C6506		VCEA1HAC3R3	CAPACITOR	1	
C6507		ECEA1AKA330	E.CAPACITOR 10V 33U	1	
C6508		ECEA1CKA330	E.CAPACITOR 16V 33U	1	
C6509		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C6510		ECEA0JK470	E.CAPACITOR 6.3V 47U	1	
C6511-14		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	4	
C6515,16		ECUM1H101JCN	C.CAPACITOR CH 50V 100P	2	
IC6501		VCR0172	IC	1	
IR6501		VEK6407	IR RECEIVER UNIT	1	
L6501,02		ELESE471KA	COIL 220UH	2	
L6503,04		ELESE221KA	COIL 100UH	2	
L6506,07		ELESE101KA	COIL	2	
P6502		VJP1251T	CONNECTOR (MALE) 11P	1	
PS6501,02		VJS3405A011A	CONNECTOR (FEMALE) 11P	2	
R6501		ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R6502		ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R6503,04		ERJ6GEYG271	M.RESISTOR CH 1/10W 270	2	
R6505		ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R6506		ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R6508,09		ERJ6GEYJ222	M.RESISTOR CH 1/10W 2.2K	2	
R6511		ERDS2TJ470	C.RESISTOR 1/4W 47	1	
SW6501,02		EVQ11409K	SWITCH	2	
VR6501		EWAKABX15C23	V.RESISTOR	1	
VR6502		EWAKFKX15B24	V.RESISTOR	1	
VR6503		EWANYJX1054J	V.RESISTOR	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
			MISCELLANEOUS		
		VEJ1429	FRONT JACK PLATE	1	
		VYC0599	REC VR COVER UNIT	1	
		VGU4495	REC VR KNOB	1	
	■	VEP07739J	TIMER C.B.A.		(RTL)NV-HS800B
C1701		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C1702		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1703		ECKD2H471KB	C.CAPACITOR 500V 470P	1	
C1704		ECEA1VKA220	E.CAPACITOR 35V 22U	1	
C1705		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1706		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7501		ECRHC030E11	V.CAPACITOR	1	
C7502		ECEA0JKS330	E.CAPACITOR 6.3V 33U	1	
C7503		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C7505,06		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7507,08		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C7509		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C7510		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7511		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7513		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C7514,15		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7517		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7518		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7519-30		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	12	
C7531,32		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7533-36		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	4	
C7537		ECEA1HKA220	E.CAPACITOR 50V 22U	1	
C7538		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7539		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
D1701		MA1270-H	DIODE	1	
D1702		MA185	DIODE	1	
D7501		MA3075	DIODE	1	
D7502-06		MA221	DIODE	5	
D7510,11		MA221	DIODE	2	
D7514		MA221	DIODE	1	
D7516-18		MA221	DIODE	3	
D7520-22		MA221	DIODE	3	
D7526		MA221	DIODE	1	
D7534		MA221	DIODE	1	
D7546-53		MA221	DIODE	8	
D7556-60		LN81RCPHL	LED	5	
D7562,63		MA221	DIODE	2	
DP7501		VSL0276	DISPLAY TUBE	1	
IC7501		M37502V4BS	IC	1	
IC7502		PST7026	IC	1	
IC7503		XLJ9021B	IC	1	
IC7504		PST7043	IC	1	
IC7505		BA6810S	IC	1	
L7501		VLQEL05S101K	COIL 100UH	1	
L7502		VLQ0188J330	COIL 33UH	1	
P7501,02		VJS3537A020G	CONNECTOR (FEMALE) 20P	2	
P7503		VJP3234B010	CONNECTOR (MALE) 10P	1	
P7504		VJP1246T	CONNECTOR (MALE) 6P	1	
P7505,06		VJS2183	CONNECTOR (FEMALE)	2	
PP7501,02		VJP3405A011W	CONNECTOR (MALE) 11P	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
Q1701		2SD973A-R.VT	TRANSISTOR	1	
Q7501,02		MSD601	TRANSISTOR	2	
QR7501,02		MRN2403	TRANSISTOR-RESISTOR	2	
QR7503		MRN2402	TRANSISTOR-RESISTOR	1	
QR7506		MRN1402	TRANSISTOR-RESISTOR	1	
QR7507		MRN1404	TRANSISTOR-RESISTOR	1	
QR7508-11		MRN2404	TRANSISTOR-RESISTOR	4	
QR7512-14		MRN2403	TRANSISTOR-RESISTOR	3	
R1701		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R1702		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1703		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7501,02		ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	2	
R7503		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R7504		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7505-07		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R7508		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7509		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R7510		ERJ6GEYK106	M.RESISTOR CH 1/10W 10M	1	
R7511		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7512,13		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7514-16		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7517,18		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7519-22		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7525,26		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R7527-29		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	3	
R7531-41		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	11	
R7542-56		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	15	
R7557-59		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	3	
R7561,62		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7564		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7565		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7566		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7567		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7568		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7569		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7570		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7571		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7572		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7573		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7574		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
RX7501,02		EXBF6E104J	RESISTOR-RESISTOR	2	
RX7503		EXBF8E104J	RESISTOR-RESISTOR	1	
SW7501,02		ESD172255	SWITCH	2	
SW7503		ESD172355	SWITCH	1	
SW7504-07		ESD172255	SWITCH	4	
SW7508,09		ESD172355	SWITCH	2	
T1701		ETE13K80AY	TRANSFORMER	1	
VR4004		EVNCBAA00B53	V.RESISTOR	1	
X7501		VSX0506	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD0504	LED HOLDER	5	
		VJF1043	FIP HOLDER	1	
	■	VEP07739K	TIMER C.B.A.		(RTL)NV-HS800EC

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1701		ECEA1CKA101	E.CAPACITOR 16V 100U	1	
C1702		ECUM1H103ZFN	C.CAPACITOR CH 50V 0.01U	1	
C1703		ECKD2H471KB	C.CAPACITOR 500V 470P	1	
C1704		ECEA1VKA220	E.CAPACITOR 35V 22U	1	
C1705		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1706		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7501		ECRHC030E11	V.CAPACITOR	1	
C7502		ECEA0JKS330	E.CAPACITOR 6.3V 33U	1	
C7503		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7504		ECUM1H223KBN	C.CAPACITOR CH 50V 0.022U	1	
C7505,06		ECEA1EKS4R7	E.CAPACITOR 25V 4.7U	2	
C7507,08		ECUM1H473ZFN	C.CAPACITOR CH 50V 0.047U	2	
C7509		ECUM1H060DCN	C.CAPACITOR CH 50V 6P	1	
C7510		ECUM1H180JCN	C.CAPACITOR CH 50V 18P	1	
C7511		ECUM1H220JCN	C.CAPACITOR CH 50V 22P	1	
C7512		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7513		ECEA0JKA221	E.CAPACITOR 6.3V 220U	1	
C7514,15		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7517		ECEA0JKS470	E.CAPACITOR 6.3V 47U	1	
C7518		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7519-30		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	12	
C7531,32		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C7533-36		ECUM1H270JCN	C.CAPACITOR CH 50V 27P	4	
C7537		ECEA1HKA220	E.CAPACITOR 50V 22U	1	
C7538		ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C7539		ECUM1H561JCN	C.CAPACITOR CH 50V 560P	1	
D1701		MA1270-H	DIODE	1	
D1702		MA185	DIODE	1	
D7501		MA3075	DIODE	1	
D7502-06		MA221	DIODE	5	
D7510		MA221	DIODE	1	
D7512		MA221	DIODE	1	
D7514		MA221	DIODE	1	
D7517,18		MA221	DIODE	2	
D7520		MA221	DIODE	1	
D7522		MA221	DIODE	1	
D7526		MA221	DIODE	1	
D7532		MA221	DIODE	1	
D7534,35		MA221	DIODE	2	
D7546-53		MA221	DIODE	8	
D7556-61		LN81RCPHL	LED	6	
D7562,63		MA221	DIODE	2	
DP7501		VSL0276	DISPLAY TUBE	1	
IC7501		M37502V4BS	IC	1	
IC7502		PST7026	IC	1	
IC7503		XLJ9021B	IC	1	
IC7504		PST7043	IC	1	
IC7505		BA6810S	IC	1	
L7501		VLQEL05S101K	COIL 100UH	1	
L7502		VLQ0188J330	COIL 33UH	1	
P7501,02		VJS3537A020G	CONNECTOR (FEMALE) 20P	2	
P7503		VJP3234B010	CONNECTOR (MALE) 10P	1	
P7504		VJP1246T	CONNECTOR (MALE) 6P	1	
P7505,06		VJS2183	CONNECTOR (FEMALE)	2	
PP7501,02		VJP3405A011W	CONNECTOR (MALE) 11P	2	
Q1701		2SD973A-R.VT	TRANSISTOR	1	
Q7501,02		MSD601	TRANSISTOR	2	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
QR7501,02		MRN2403	TRANSISTOR-RESISTOR	2	
QR7503		MRN2402	TRANSISTOR-RESISTOR	1	
QR7506		MRN1402	TRANSISTOR-RESISTOR	1	
QR7507		MRN1404	TRANSISTOR-RESISTOR	1	
QR7508-11		MRN2404	TRANSISTOR-RESISTOR	4	
QR7512-14		MRN2403	TRANSISTOR-RESISTOR	3	
R1701		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	1	
R1702		ERDS2TJ101	C.RESISTOR 1/4W 100	1	
R1703		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7501,02		ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	2	
R7503		ERJ6GEYG223	M.RESISTOR CH 1/10W 22K	1	
R7504		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7505-07		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	3	
R7508		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7509		ERJ6GEYJ331	M.RESISTOR CH 1/10W 330	1	
R7510		ERJ6GEYK106	M.RESISTOR CH 1/10W 10M	1	
R7511		ERJ6GEYJ224	M.RESISTOR CH 1/10W 220K	1	
R7512,13		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7514-16		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	3	
R7517,18		ERJ6GEYJ473	M.RESISTOR CH 1/10W 47K	2	
R7519-22		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	4	
R7525,26		ERJ6GEYJ471	M.RESISTOR CH 1/10W 470	2	
R7527-30		ERJ6GMZOR00	M.RESISTOR CH 1/10W 0	4	
R7531-41		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	11	
R7542-56		ERJ6GEYJ332	M.RESISTOR CH 1/10W 3.3K	15	
R7557-59		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	3	
R7561,62		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	2	
R7564		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7565		ERJ6GEYJ392	M.RESISTOR CH 1/10W 3.9K	1	
R7566		ERJ6GEYJ104	M.RESISTOR CH 1/10W 100K	1	
R7567		ERJ6GEYJ272	M.RESISTOR CH 1/10W 2.7K	1	
R7568		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7569		ERJ6GEYJ101	M.RESISTOR CH 1/10W 100	1	
R7570		ERJ6GEYJ681	M.RESISTOR CH 1/10W 680	1	
R7571		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7572		ERJ6GEYJ102	M.RESISTOR CH 1/10W 1K	1	
R7573		ERJ6GEYJ103	M.RESISTOR CH 1/10W 10K	1	
R7574		ERJ6GEYJ221	M.RESISTOR CH 1/10W 220	1	
RX7501,02		EXBF6E104J	RESISTOR-RESISTOR	2	
RX7503		EXBF8E104J	RESISTOR-RESISTOR	1	
SW7501,02		ESD172255	SWITCH	2	
SW7503		ESD172355	SWITCH	1	
SW7504-07		ESD172255	SWITCH	4	
SW7508,09		ESD172355	SWITCH	2	
T1701		ETE13K80AY	TRANSFORMER	1	
VR4004		EVNCBAA00B53	V.RESISTOR	1	
X7501		VSX0506	CRYSTAL OSCILLATOR	1	
X7502		VSX0094	CRYSTAL OSCILLATOR	1	
			MISCELLANEOUS		
		VMD0504	LED HOLDER	6	
		VJF1043	FIP HOLDER	1	
	■	VEP01558C	POWER C.B.A.		(RTL)<!>
C1103		VCC0021	C.CAPACITOR V	1	<!>
C1106		VCC0021	C.CAPACITOR V	1	<!>
C1109		VCC0023	C.CAPACITOR	1	<!>
C1110		ECQU2A224MN	P.CAPACITOR 250V 0.22U	1	<!>

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
C1111		ECQU2A154MNB	P.CAPACITOR 250V 0.15U	1	<!>
C1112		ECEC2GG680	E.CAPACITOR 400V 68U	1	
C1113		ECQE6473KF	P.CAPACITOR 50V	1	
C1114		VCK0106K121	C.CAPACITOR	1	
C1115		ECA1VXLV470	E.CAPACITOR 35V 47U	1	
C1116		ECA1CXLV101	E.CAPACITOR 16V 100U	1	
C1117		ECKF1H102KB	C.CAPACITOR 50V 1000P	1	
C1118		ECKF1H271KB	C.CAPACITOR 50V 270P	1	
C1121		ECCD2H101J	C.CAPACITOR 500V 100P	1	
C1123		ECEA1JFE560	E.CAPACITOR 63V 56U	1	
C1124		ECEA1CFE331	E.CAPACITOR 16V 330U	1	
C1125		ECEA1DFZ681	E.CAPACITOR 20V 680U	1	
C1126		ECEA1AFZ681	E.CAPACITOR 10V 680U	1	
C1127		ECEA1JFE470	E.CAPACITOR 63V 47U	1	
C1128		ECEA1CFE121	E.CAPACITOR 16V 120U	1	
C1129		ECEA1DFZ681	E.CAPACITOR 20V 680U	1	
C1130		ECEA1AFZ681	E.CAPACITOR 10V 680U	1	
C1131-34		ECKF1H102ZF	C.CAPACITOR 50V 1000P	4	
C1135,36		ECA1CGE101X	E.CAPACITOR 16V 100U	2	
C1139		ECKF1H103ZF	C.CAPACITOR 50V 0.01U	1	
C1140,41		ECA1CGE101X	E.CAPACITOR 16V 100U	2	
D1102		EM1B	DIODE	1	<!>
D1103		AP01C	DIODE	1	
D1104		MA178	DIODE	1	
D1105		1SS254	DIODE	1	
D1106		MA4200H	DIODE	1	
D1107		MA723VT	DIODE	1	
D1108		10ELS2	DIODE	1	
D1109		MA185	DIODE	1	
D1110		FMLG12SP	DIODE	1	
D1111		FMBG14L	DIODE	1	
D1112		SV03YS	DIODE	1	
D1115-17		EM1B	DIODE	3	<!>
D1118		MA4056-LVT	DIODE	1	
D1119		1SS254	DIODE	1	
D1120		MA4120H	DIODE	1	
D1121,22		1SS254	DIODE	2	
IC1101		STRM6547LF	IC	1	<!>
IC1103		SI3120C	IC	1	
IC1104		SI-3050CA	DIODE	1	
L1101,02		ELF18D221F	COIL	2	<!>
L1103-09		EXCELSA35	COIL	7	
L1110		VLP0074	COIL	1	
L1111,12		ELESE101KA	COIL 100UH	2	
L1113,14		ELC07B009	COIL	2	
L1115,16		VLP0083	COIL	2	
P1101		VJS2625	AC INLET	1	<!>
P1102		VJP1930T	CONNECTOR (MALE)	1	
P1103		VJP1149	CONNECTOR (MALE) 3P	1	
Q1101		PC120FY	TRANSISTOR	1	<!>
Q1102		2SD1996-R	TRANSISTOR	1	
R1101		ERC12AGM334	S.RESISTOR 1/2W 330K	1	<!>
R1102		VRE0087	M.RESISTOR	1	
R1103		ERG3SJ823	M.RESISTOR 1/16W 82K	1	
R1104,05		ERDS2FJ224	C.RESISTOR 1/4W 220K	2	
R1106		ERDS2FJ221	C.RESISTOR 1/4W 220	1	
R1109		ERDS2FJ561	C.RESISTOR 1/4W 560	1	
R1110		ERDS2FJ391	C.RESISTOR 1/4W 390	1	
R1111		ERX1SJ1R5	M.RESISTOR 1W 1.5	1	
R1112		ERDS2FJ103	C.RESISTOR 1/4W 10K	1	
R1113		ERDS2FJ682	C.RESISTOR 1/4W 6.8K	1	
R1114		ERDS2FJ101	C.RESISTOR 1/4W 100	1	
R1115		ERDS2TJ271	C.RESISTOR 1/4W 270	1	

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
R1122		ERDS2CKG62R0	M.RESISTOR 1/2W 62	1	
R1123		ERDS2CKG3001	M.RESISTOR 1/4W 3K	1	
R1124		ERDS2CKG20R0	M.RESISTOR 1/2W 20	1	
R1125		ERDS2CKG1201	M.RESISTOR 1/4W 1.2K	1	
R1126		ERDS1TJ562	C.RESISTOR 1/2W 5.6K	1	
R1127		ERDS2FJ224	C.RESISTOR 1/4W 220K	1	
T1101		VLTO718	TRANSFORMER	1	<!>
			MISCELLANEOUS		
		VJFO318	FUSE HOLDER	2	<!>
		VMZ2212	CAPACITOR COVER	3	<!>
	■	VEXO126	CYLINDER DRIVE C.B.A.		(RTL)
C2901-03		ECEA1VSN2R2	E.CAPACITOR 35V 2.2U	3	
C2904-06		ECUM1E104KBM	C.CAPACITOR CH 25V 0.1U	3	
C2907		ECUM1E683KBM	C.CAPACITOR CH 25V 0.068U	1	
C2908		ECUM1E473KBM	C.CAPACITOR CH 25V 0.047U	1	
C2909		ECQV1H104JS	P.CAPACITOR 50V 0.1U	1	
C2910,11		ECEA1CKS100	E.CAPACITOR 16V 10U	2	
C2912		ECEA0JKS220	E.CAPACITOR 6.3V 22U	1	
IC2901		AN3815K	IC	1	
P2901		VJP2603W	CONNECTOR (MALE)	1	
P2902		VJP1232T	CONNECTOR (MALE) 5P	1	
R2901		ERX12SJR47	M.RESISTOR CH 1/2W 0.47	1	
TH2901		VRHO017	THERMISTOR	1	
			MISCELLANEOUS		
		VMA8089	MAIN HOLDER	1	
	■	----------	MECHANISM CONNECTION C.B.A.		(RTL)
D1501		LN59L.VT	IC	1	
IC1501,02		ON1387	DIODE	2	
P1503		VJS3316A002	CONNECTOR (FEMALE) 2P	1	
P1504		VJS3317A004	CONNECTOR (FEMALE) 4P	1	
P1505		VJS3537B014G	CONNECTOR (FEMALE) 14P	1	
Q1501,02		PN205L-NC.VT	TRANSFORMER	2	
SW1501		VESO695	JACK	1	
SW1502		VSTO176	SWITCH	1	
			MISCELLANEOUS		
		VMA8089	MAIN HOLDER	1	
	■	----------	MECHANISM CONNECTION C.B.A.		(RTL)

Ref.No.		Part No.	Part Name & Description	Pcs	Remarks
D1501		LN59L.VT	IC	1	
IC1501,02		ON1387	DIODE	2	
P1503		VJS3316A002	CONNECTOR (FEMALE) 2P	1	
P1504		VJS3317A004	CONNECTOR (FEMALE) 4P	1	
P1505		VJS3537B014G	CONNECTOR (FEMALE) 14P	1	
Q1501,02		PN205L-NC.VT	TRANSFORMER	2	
SW1501		VESO695	JACK	1	
SW1502		VSTO176	SWITCH	1	
			MISCELLANEOUS		
		VMD2029	REEL GUIDE	1	
	■	----------	MOTOR C.B.A.		(RTL)
			MISCELLANEOUS		
		VJP3316B002	CONNECTOR (FEMALE) 2P	1	

INTERNAL REFERENCE CODES

NOTE: This chart is only for internal reference.
Do not order any parts according to these codes.

P. C. B.	FILM CODE
SYUGO (MAIN/SUB A/CAP DR)	H0A003-0231A
MAIN	H0A003-03A37
SUB AUDIO	H0A000-04417
CAP DRIVE	H0A000-02412
SYUGO (L&C/SUB L&C)	H0A001-0242A
LUMINANNCE & CHROMINANCE	H0A001-03A61
SUB LUMI & CHRO	H0A001-03A62
POWER	H0A000-01558
INPUT & OUTPUT	H0A000-03A72
TV DEMODULATOR(B)	H0A001-07680
TV DEMODULATOR(EC)	H0A000-07757
DECORDER(EC)	H0A000-07671
NICAM DECODER	H0A000-07675
AFC DEF(B)	H0A000-07786
HEAD AMP	H0A004-05176
HI-FI AUDIO	H0A000-04447
VR	H0A001-06926
TIMER	H0A000-07739
REC RF AMP	H0A000-03A90
MECHA CONNECTION	H0A000-00T87
CYLINDER DRIVE	H0A002-00R99
LOADING MOTOR	H0A000-00S75

ORDER NO. VSD9402M632

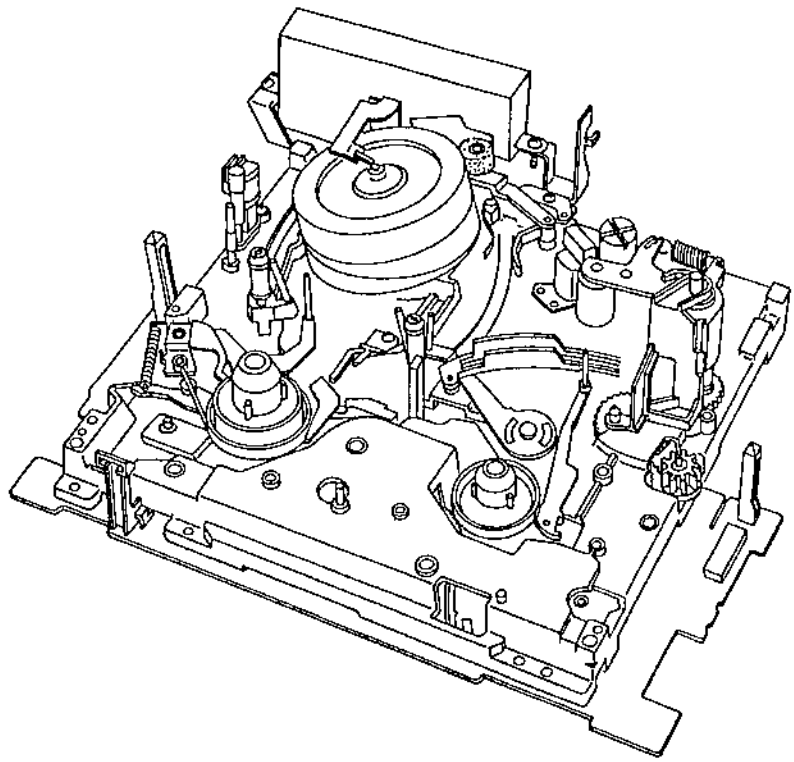
Service Manual

Sec. 1 General Information
Sec. 2 Maintenance Procedures
Sec. 3 Mechanical Adjustment Procedur
Sec. 4 Assembly & Phase Adjustment Procedure

Video Cassette Recorder

VHS
PAL

K-MECHANISM



IMPORTANT

The **K-MECHANISM** chassis are built in several Panasonic SVHS/VHS Video Cassette Recorder.

Thus, Properly file this service manual with the service manual of the relative video cassette recorder.

Panasonic

INTRODUCTION

This Service Manual contains the technical information which service personnel to understand and service the K-Mechanism.
The Maintenance Chart, Mechanical Parts List and Mechanical Specification, please refer to the service manual of each model.

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SECTION 1
GENERAL INFORMATION

The K mechanism maintains the same high performance as G2 mechanism but with a smaller quantity of mounted parts, 40% less than G2 mechanism.

1-1. FEATURE of K MECHANISM

1-1-1. Parts Reduction

<K Mechanism>

a. Reduction in the number of drive parts through the use of a single motor to perform front loading and unit loading.
b. Direct drive of brakes and loading gears with the multi-function main lever.
c. Elimination of sub lever and solenoids.

<Front Loading Unit>

a. Elimination of a slide switch, to reduce wiring.
b. Elimination or combining the joint parts.
c. Smaller and thinner the top plate and rack parts.

1-1-2. No Adjustment of the following is required.

a. Take-up inclined position.
b. P5 Post height.

1-1-3. Reduced Gear Phase Position Alignments

The K Mechanism has only 6 gear phase alignment positions and G2 mechanism has 12 gear phase alignment positions.

1-2. OPERATION of K-MECHANISM

The K mechanism has two motors, the loading motor and capstan motor. The loading motor operates the front loading/unloading and tape loading/unloading. The capstan motor operates each mode.
The bottom C.B.A. connects the mechanism to the system control circuit. On the bottom C.B.A. there are take-up and supply photo-sensors, Sensor LED, Mode Switch Connector, Safety Tab Switch, Supply and Take-up Reel Sensors and Loading Motor Connector. All sensor information sent to the system control circuit.

1-3. EMERGENCY CASSETTE REMOVAL

If the electrical circuit is defective and the action of unloading and front unloading do not work properly, it is possible to removing cassette manually.
There are 2 methods of removing the cassette.

A. Battery Operation

1. Remove the bottom plate.
2. Connect the battery (Manganese-Type (AA)(R6) 3pcs./+4.5V) to P1503 as shown in Fig.G1.
3. After moving the loading post to the unloaded position, disconnect the battery to stop the loading motor.
4. Turn the capstan rotor clockwise to take up the tape.
5. Reconnect the battery to eject the cassette.

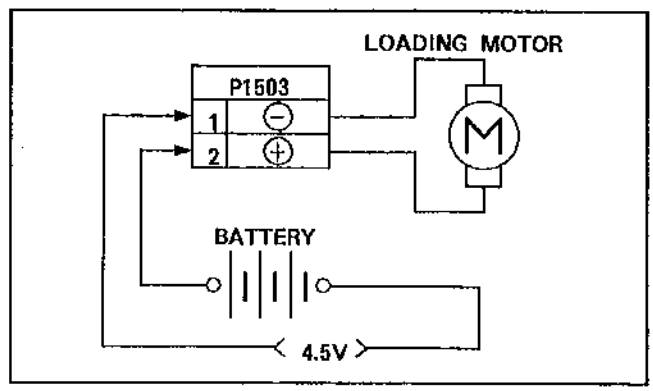


Fig.G1

B. Hand Operation

1. Remove the bottom plate.
2. Turn the worm gear to arrow mark direction (A) by finger as shown in Fig.G2 until loading post move to unloading position.
3. Turn the capstan rotor clockwise (B) to take up the tape.
4. Turn the worm gear again to eject the cassette.

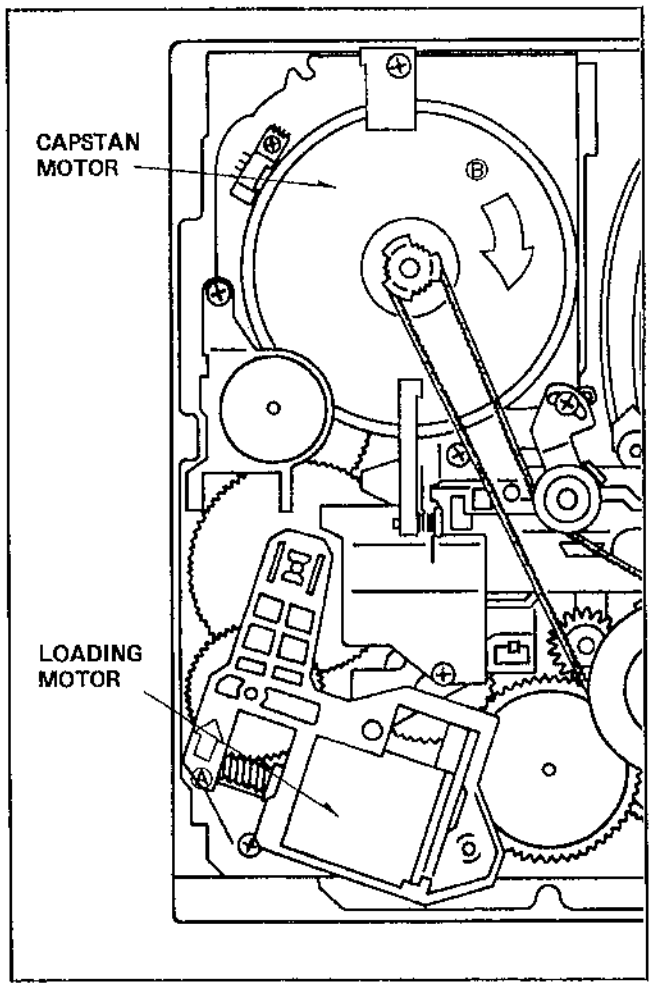


Fig.G2

1-4. EJECT OPERATION

The main cam gear rotates in the direction of the arrow. The projection (B) of the carriage connection gear engages with the recession (A) of the main cam gear. The carriage connection gear rotates in the direction of the arrow to perform the Eject operation.

If the Eject operation is performed without the cassette installed while repairing or making the mechanical phase alignment, the main cam gear will not rotate. For performing the Eject operation with the cassette carriage not installed, it is necessary to rotate the carriage connection gear by hand in the direction of the arrow.

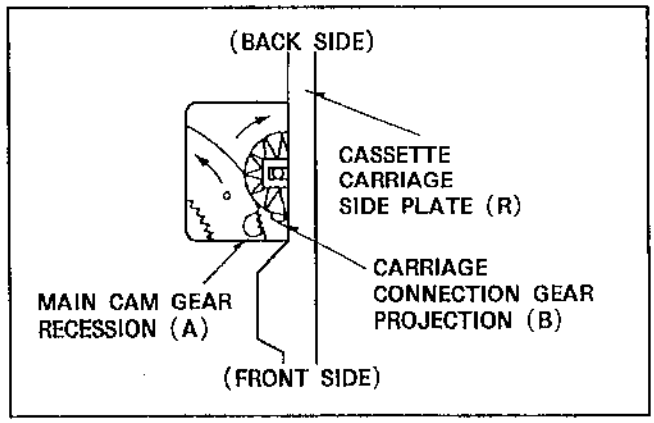


Fig.G3

1-5. REMOVAL of MECHANISM

1-5-1. Removal of Top Plate

1. Unscrew 2 screws (A) and unlock 4 locking tabs to arrow direction as shown in Fig.G4.
2. Lift up the Top Plate.

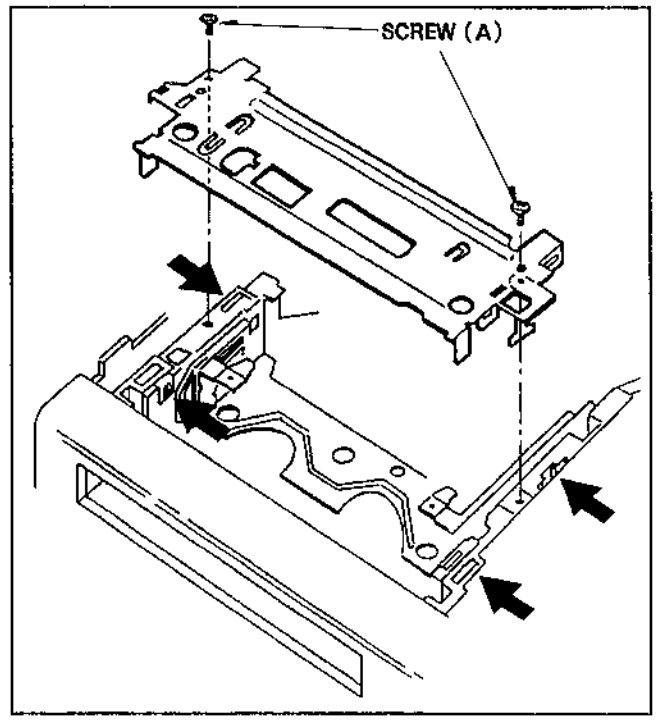


Fig.G4

1-5-2. Removal of Mechanism Chassis

1. Unscrew 2 screws (A) push the Holder Plate slightly to rear of the mechanism.
2. Unscrew a screw (B).
3. Disconnect all cable and connectors on the mechanism chassis.
   1)FE Head connector
   2)A/C Head connector
   3)Power Transistor connector
   4)Head Amp connector
   5)Capstan cable
4. Disconnect a Dew Sensor connector on the MAIN C.B.A.
5. Lift the mechanism chassis slightly and disconnect a connector of Cylinder Motor and a cable of Mechanism Connection C.B.A.
   Then mechanism chassis out of the unit.

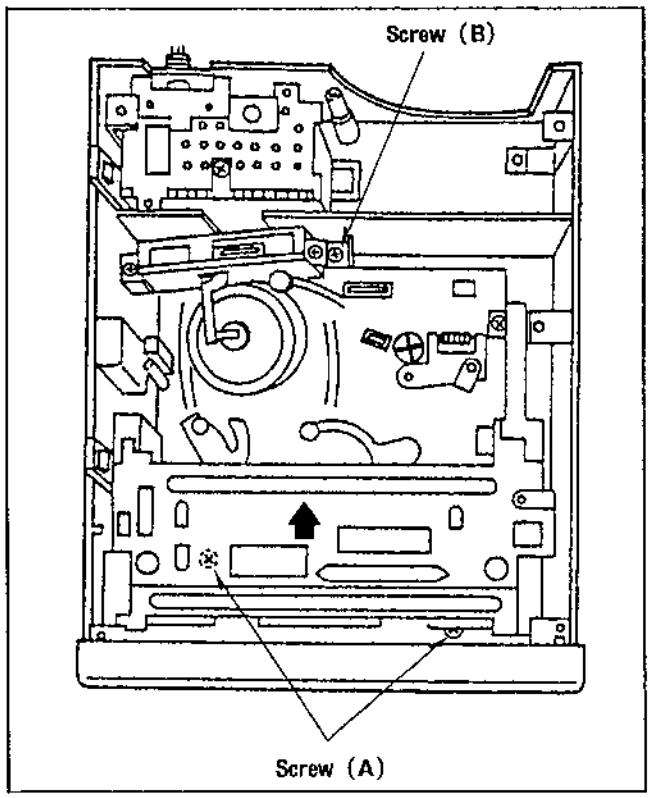


Fig.G5

1-5-3. Removal of Mechanism Connection C.B.A.

1. Unscrew 4 screws (C).
2. Lift up the Mechanism Connection C.B.A.

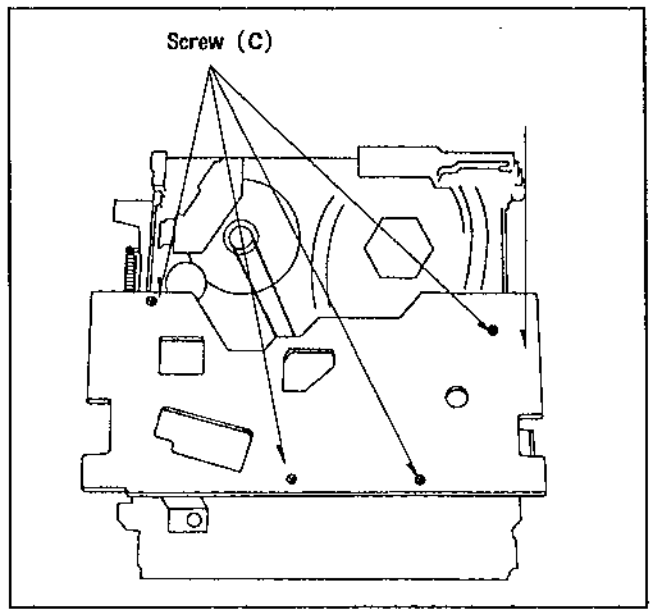
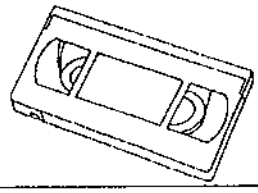
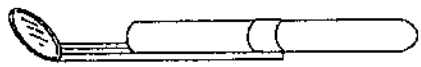
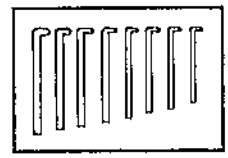
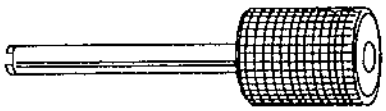
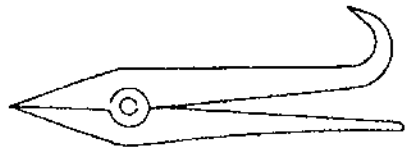
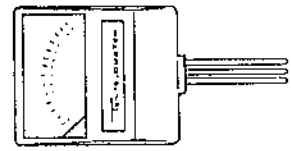
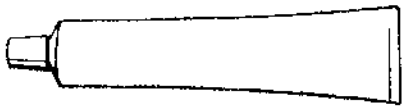
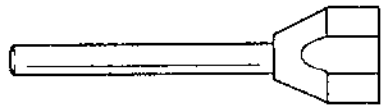
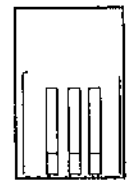
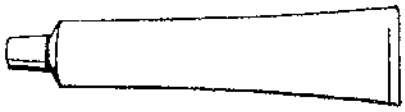
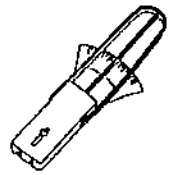


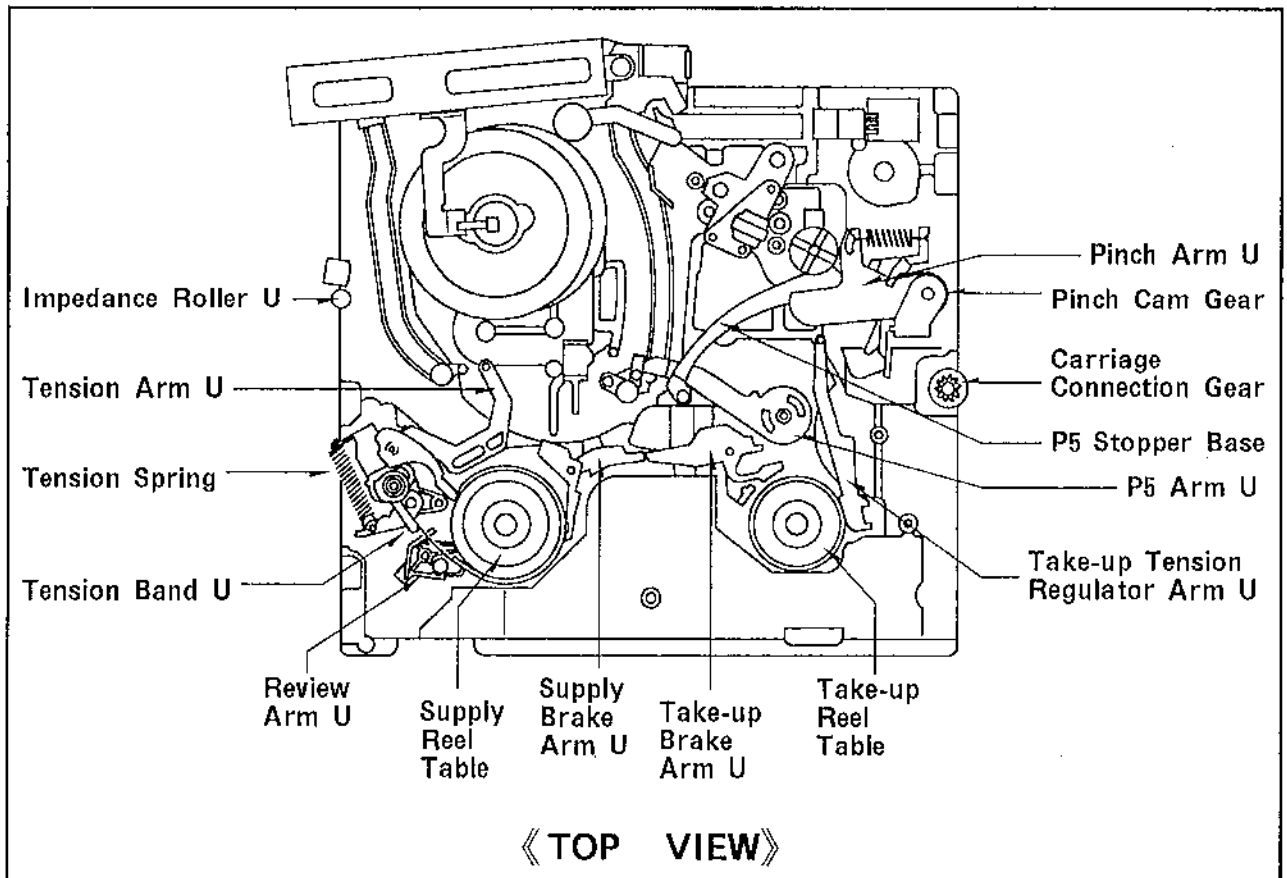
Fig.G6

1-6. SERVICE FIXTURES AND TOOLS

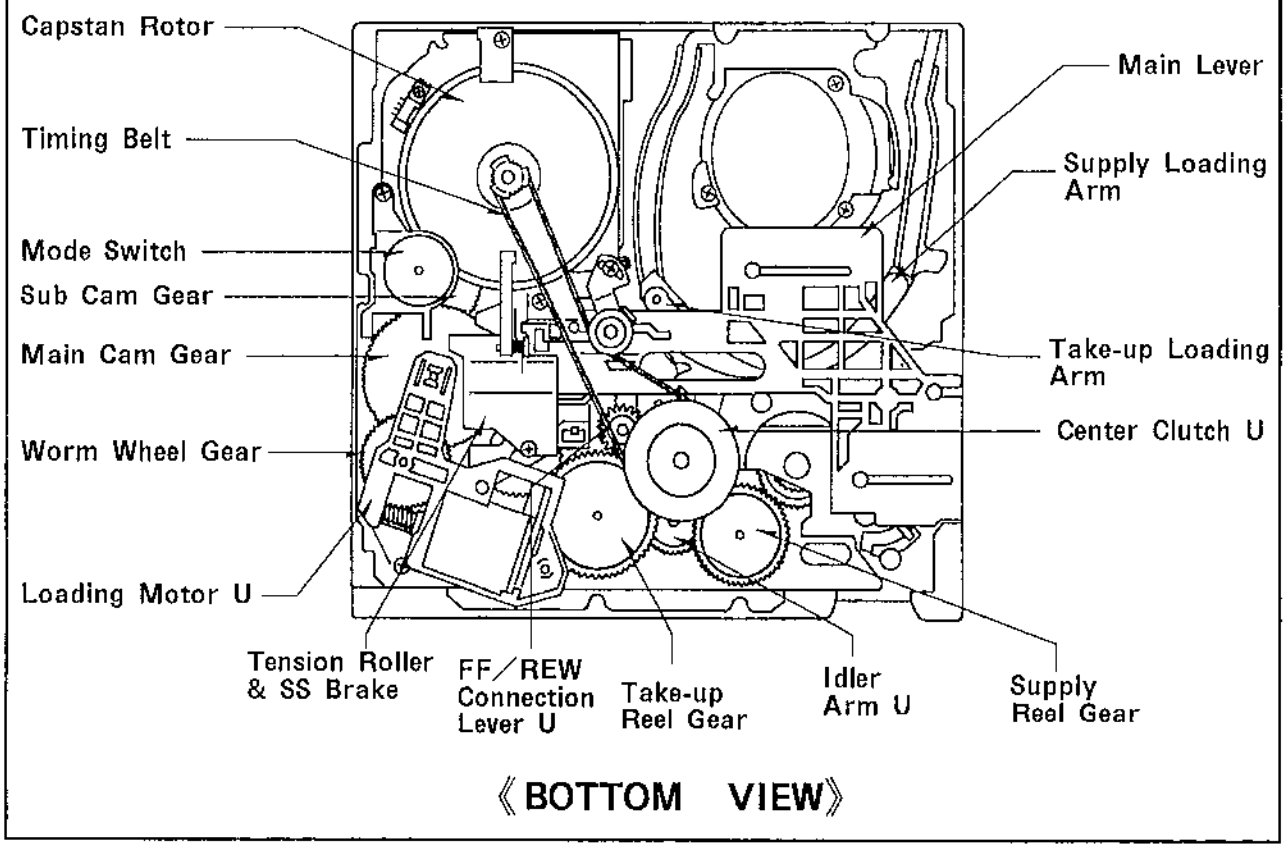
The regular maintenance is important to maintain the initial specification of the unit and prevent tape damage. The specified servicing fixture must be used to conduct adjustment.
The following fixtures, tools and measuring equipments are required to conduct complete Mechanical Adjustments.

VFM8080HQFP: VHS Alignment Tape 	VFK0948: Check Light 	VFK0326: Hex Wrench Set (0.7, 0.9, 1.2, 1.5, 1.6, 2.0, 2.4, 3.0mm) 
VFK0329: Post Adj. Screwdriver 	VFK0335: Retaining Ring Remover 	VFK0132: Back Tension Meter (Tentelometer,Made in U.S.A.) 
MOR265: Morlytone Grease (Black) (for metal parts) 	VFK0851: Center Fixing Tool 	VFK27: Head Cleaning Stick 
VFK0680: S.C.R. Grease (White) (for plastic parts) 	VFK66 ; Fan Type Tension Gauge 	VFK0330: Fine Adj. Screwdriver

1-7. Mechanical Parts Location



《TOP VIEW》



《BOTTOM VIEW》

SECTION 2
MAINTENANCE PROCEDURE

The MAINTENANCE CHART please refer to the Maintenance Section which are shown in service manual for each model.

2-1. Replacement of the Upper Cylinder Unit

1. Unscrew 2 screws (A).
2. Unsolder arrows marked portions on the top of the Upper Cylinder as shown in Fig.M1.
3. Remove the Upper Cylinder.
4. The Upper Cylinder can be reinstalled by reversing the removal procedure.
   However, when insert the Upper Cylinder be extremely carefully so that marked portion of P.C.board of the Upper Cylinder correctly matches to mark of the Lower Cylinder as shown in Fig.M2.

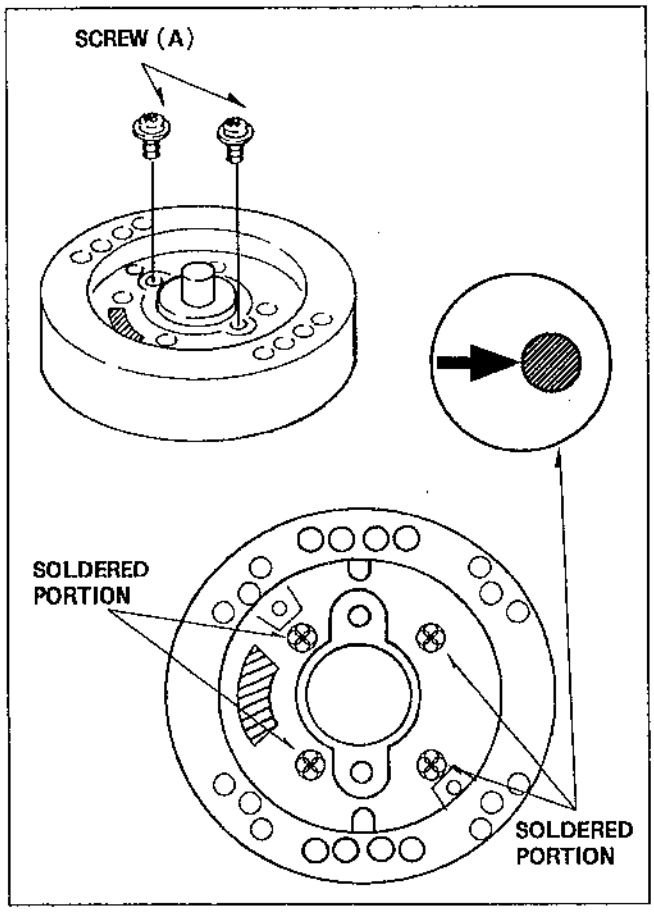


Fig.M1

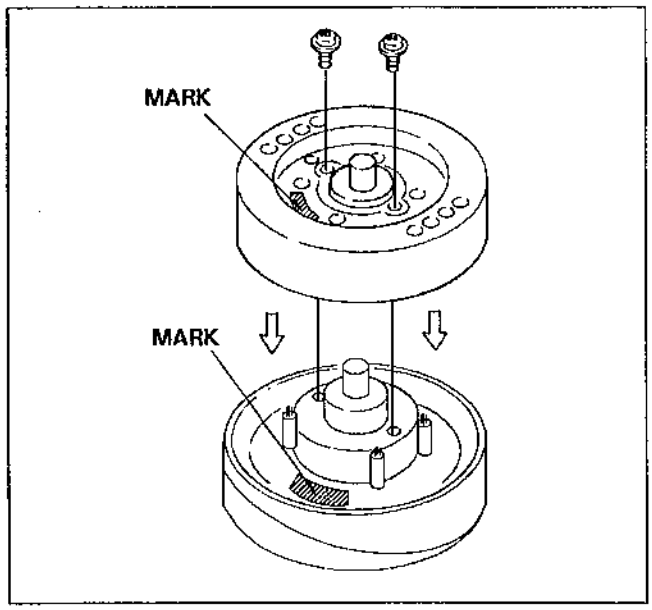


Fig.M2

<NOTE>
After reinstall the Upper Cylinder Unit should be perform Mechanical and Electrical adjustments.
3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-6. HORIZONTAL POSITION ADJUSTMENT

2-2. Replacement of Cylinder Unit

1. Remove the Earth Plate.
2. Unscrew 2 screws both side of Head Amp Unit and lift up the Head AMP.
3. Unscrew 3 screws (B) from back side of the mechanical chassis then remove the Cylinder Unit.
4. The Cylinder Unit can be reinstalled by reversing the removal procedure.

<Note>
After reinstall the Cylinder Unit should be perform Mechanical and Electrical adjustments.

3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-6. HORIZONTAL POSITION ADJUSTMENT

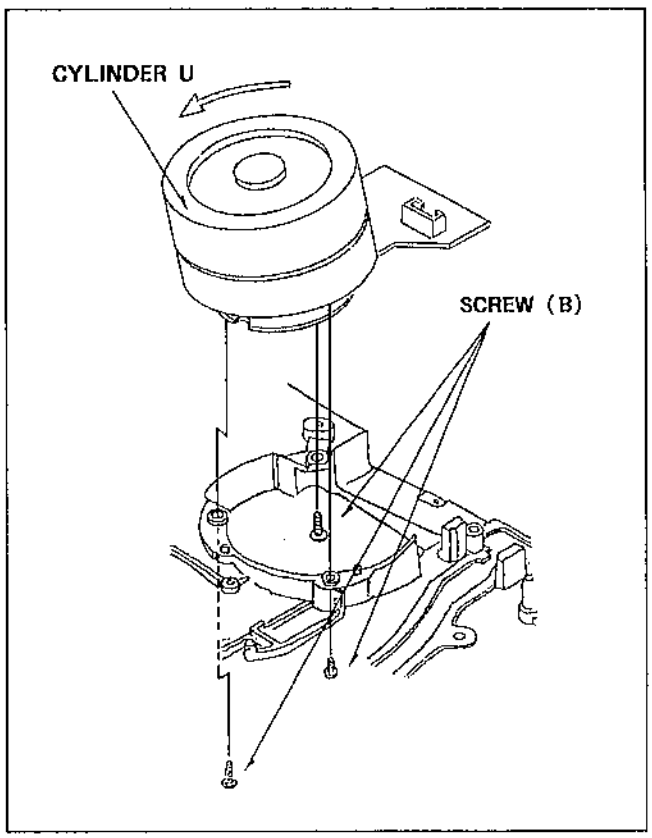


Fig.M3

2-3. Replacement of A/C HEAD Unit

1. Unscrew 3 screws (C)(D)(E) with the 3 springs then remove the A/C Head unit from the A/C Head Base.
2. The A/C Head Unit can be reinstalled by reversing the removal procedure.

<Note>
A space should be equality between the A/C Head U and the A/C Head Base when reinstall the A/C Head unit.

After reinstall the A/C Head Unit should be perform Mechanical and Electrical adjustments.

3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-3. COARSE ADJUSTMENT of A/C HEAD HEIGHT(1)
3-4. COARSE ADJUSTMENT of A/C HEAD HEIGHT(2)
3-5. FINE ADJUSTMENT of A/C HEAD HEIGHT
3-6. HORIZONTAL POSITION ADJUSTMENT

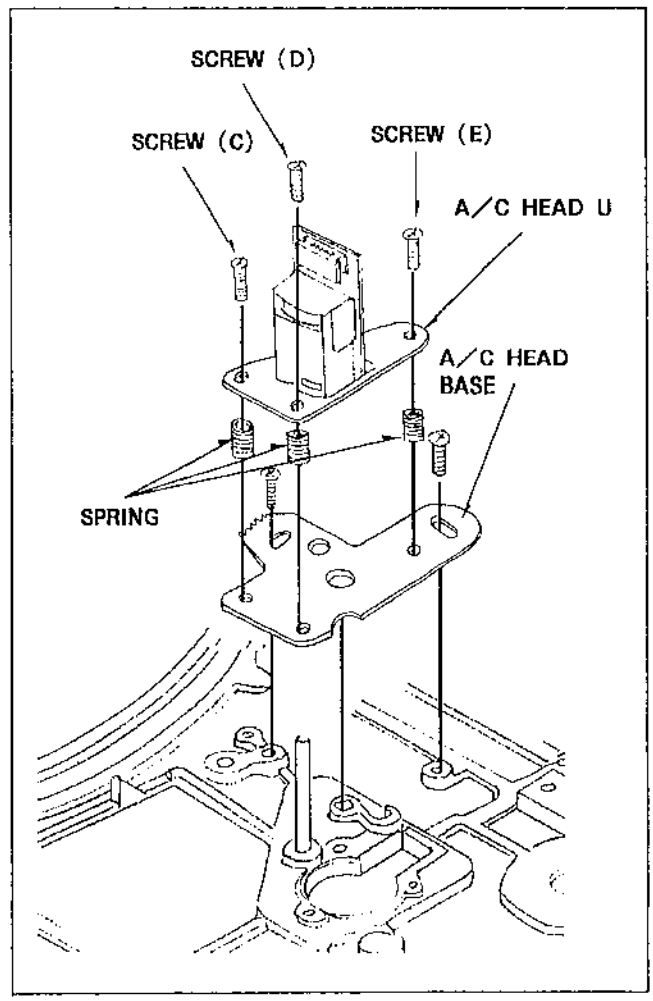


Fig.M4

2-4. Replacement of Full Erase Head Unit

1. Disconnect a connector (A).
2. Unscrew screw (F) then remove the FE Head.
3. FE Head Unit put into hole on the mechanical chassis and can be reinstalled by reversing the removal procedure.

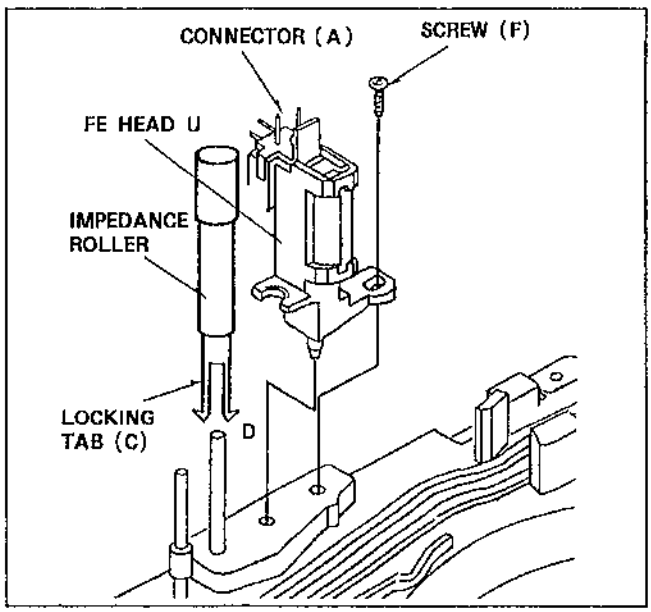


Fig.M5

2-5. Replacement of Capstan Rotor Unit and Stator Unit

1. Remove the Rotor Stopper.
2. Carefully lift up the Capstan Rotor from the Capstan Housing, taking care so as not loose the 2 Oil Seals.
3. Unscrew 3 screws (G) and remove the Capstan Stator Unit as shown in Fig.M6.
4. The Capstan Rotor and Stator can be reinstalled by reversing the removal procedure.

<Note>
After reinstall the Capstan Rotor and Stator Units should be perform Mechanical adjustment.

3-9. ADJUSTMENT of CAPSTAN HOUSING & STATOR
3-10. ADJUSTMENT of THRUST GAP
3-11. ADJUSTMENT of FG GAP

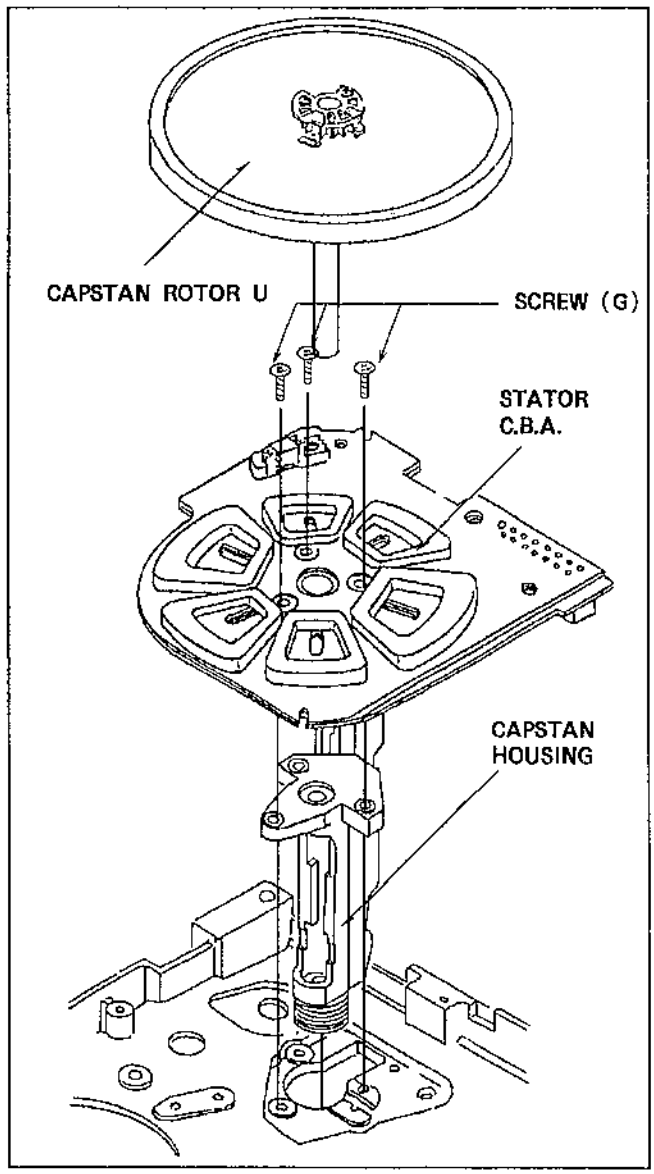


Fig.M6

2-6. Replacement of Impedance Roller Unit

1. Remove the Full Erase Head Unit with removal procedure(2-4).
2. Unlock then locking tab to direction of arrow mark as shown in Fig.M5 and remove the Impedance Roller Unit.
3. The Impedance Roller Unit can be reinstalled by reversing the removal procedure.

2-7. Replacement of Pinch Arm Unit

1. Unlock the locking tab on the Opener Piece and remove it from the shaft.
2. Remove the Pinch Arm Unit from the shaft.
3. The Pinch Arm Unit can be reinstalled by reversing the removal procedure.

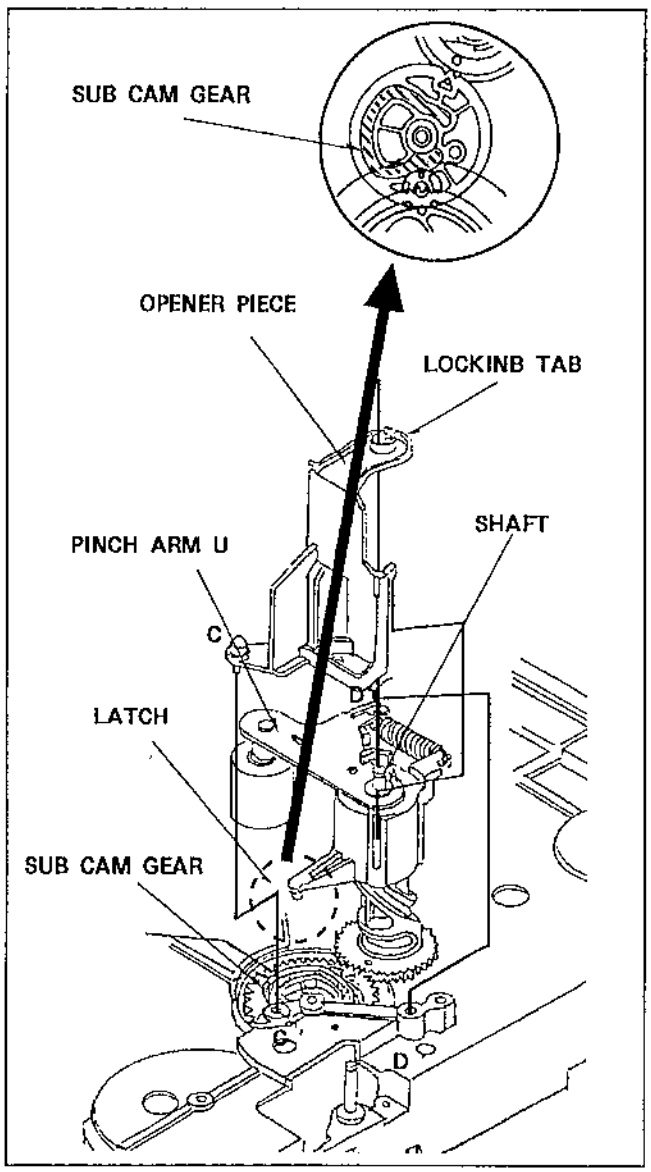


Fig.M7

2-8. Replacement of Take-up and Supply Reel Base Units

A. Supply Reel Base Unit

1. Remove the Tension Band Unit on the Supply Reel Base Unit.
2. Push the Supply main Brake Arm to direction of arrow mark and unlock the locking tab on the Supply Reel Base then pull up the Supply Reel Base Unit as shown in Fig.M8.
3. The Supply Reel Base Unit can be reinstalled by reversing the removal procedure.

B. Take-up Reel Base Unit

1. Push the Take-up Main Brake Arm to direction of arrow mark and unlock the locking tab on the top of Take-up Reel Base then pull out the Supply Reel Base Unit as shown in Fig.M8.

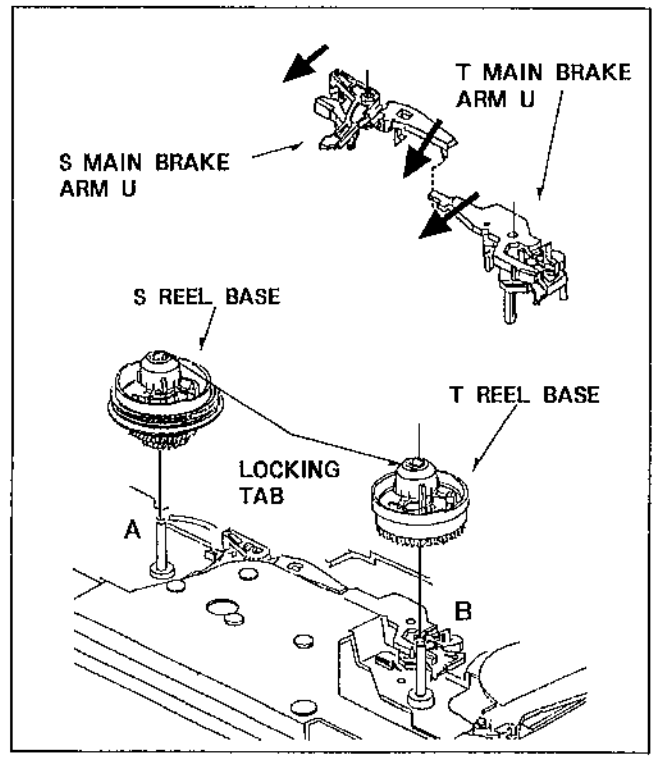


Fig.M8

2-9. Replacement of Take-up and Supply Brake Arm Unit.

1. Unlock the locking tab (A) to direction of arrow mark and lift up the Supply Brake Arm Unit.
2. Unlock the locking tab (B) and lift up the Take-up Brake Arm Unit.
3. Both Brake Arm Units can be reinstalled by reversing the removal procedure.
   However the boss (C) of the Supply Brake Arm Unit insert to hole (E) of mechanical chassis while pushing the Main Lever to direction of arrow mark as shown in Fig.M9. (expanded view)

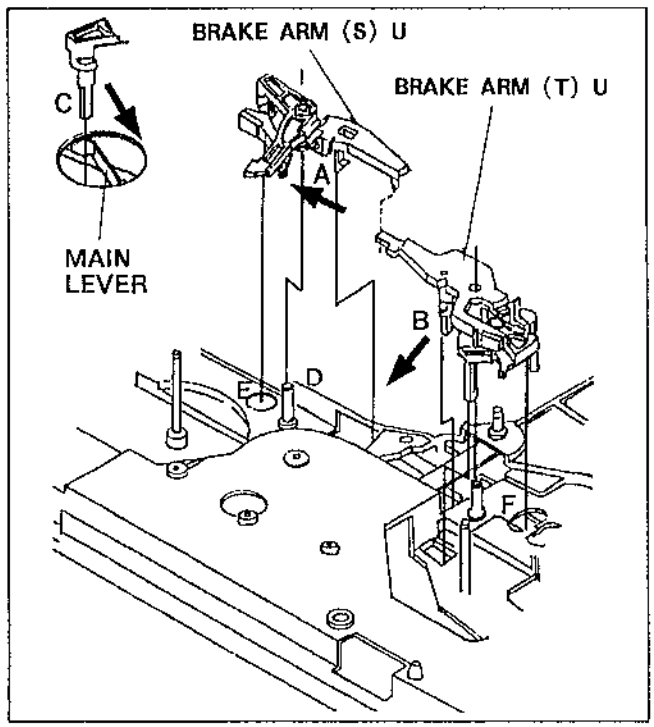


Fig.M9

2-10. Replacement of Tension Band Unit

1. Remove the cut washer (H) and lift up the Tension Arm Unit with the Tension Band and spring from the Tension Spring Arm.
2. Unlock the locking tab (A) to direction of arrow mark and remove the Tension Band from the Arm Unit.
3. Unlock the locking tab (B) and remove the Tension Band from the Tension Arm Unit.
4. The Tension Band Unit can be reinstalled by reversing the removal procedure.

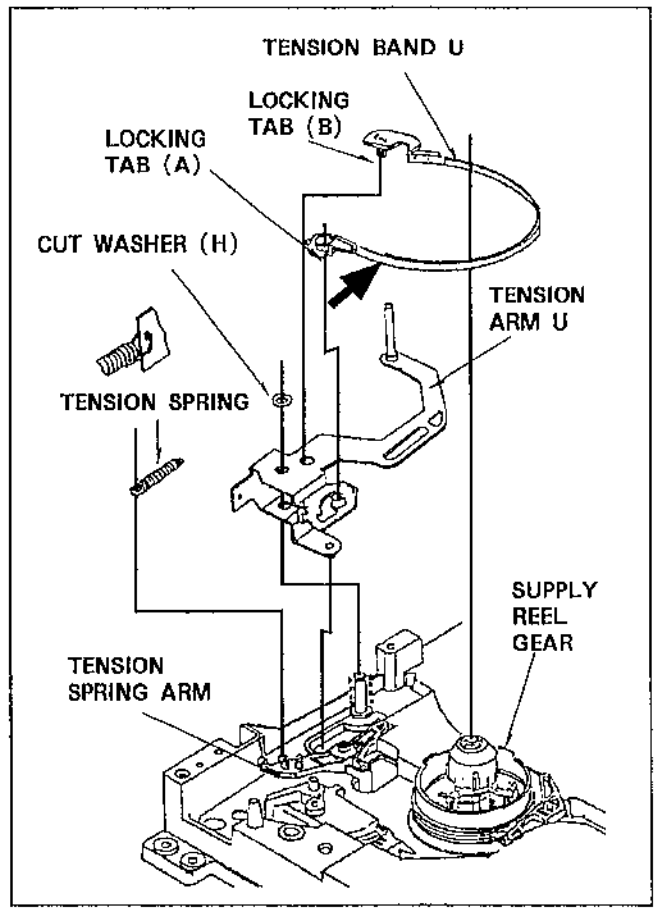


Fig.M10

2-11. Replacement of Loading Motor Unit

1. Unscrew screw (I).
2. Unlock the locking tab (A) from the top of the mechanical chassis.
3. Lift up the Loading Motor Bracket and push it to direction of arrow mark as shown in Fig.M11.
4. When reinstall the Loading Motor Unit, insert the locking hole (B') of Loading Motor Bracket Unit to shaft (B) on the mechanical chassis. Also a hole (C) of the loading Motor Unit must be matched to the shaft (C') as shown in Fig.M11.

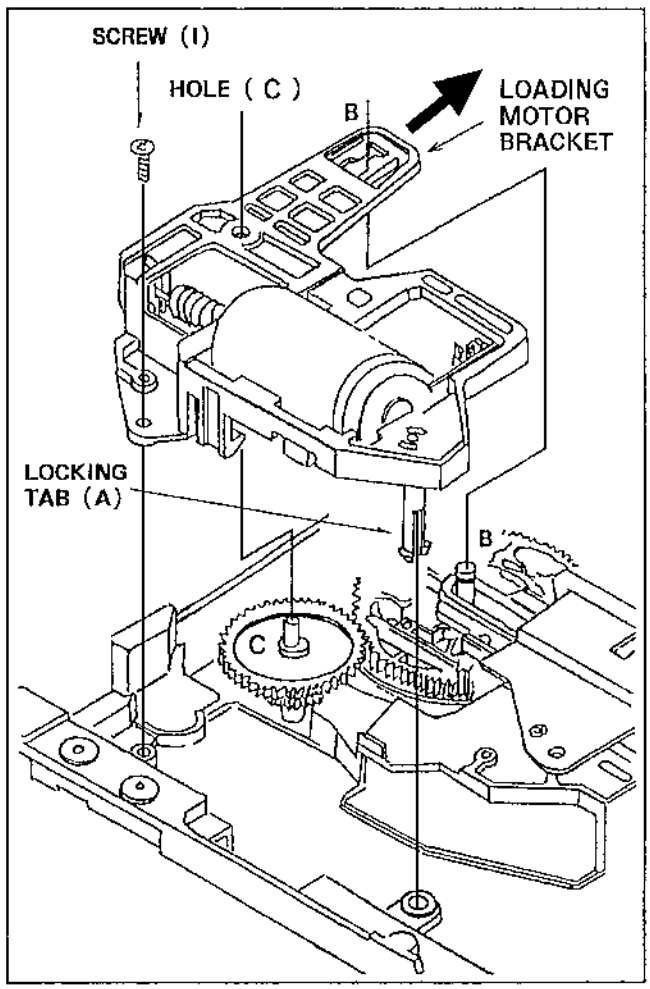


Fig.M11

2-12. Replacement of Cleaner Roller Unit

1. Unlock the locking tab (A) as shown in Fig.M12. and lift it up.
2. The Cleaner Roller Unit can be reinstalled by reversing the removal procedure.

3. Replacement of the Cleaner Rubber Unit.
   Hold the Cleaner Roller Unit and unlock the locking tab (B) then lift it up.

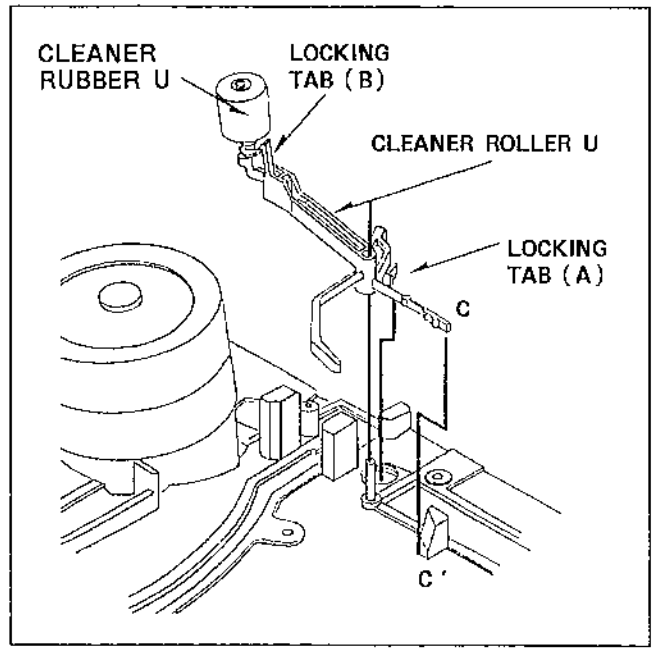


Fig.M12

2-13. Replacement of SS Brake Base Unit and Timing Belt

1. Remove the Timing Belt.
2. Unscrew (J) and (K) then remove SS Brake Base Unit.
3. SS Brake Unit and Timing Belt can be reinstalled by reversing the removal procedure.

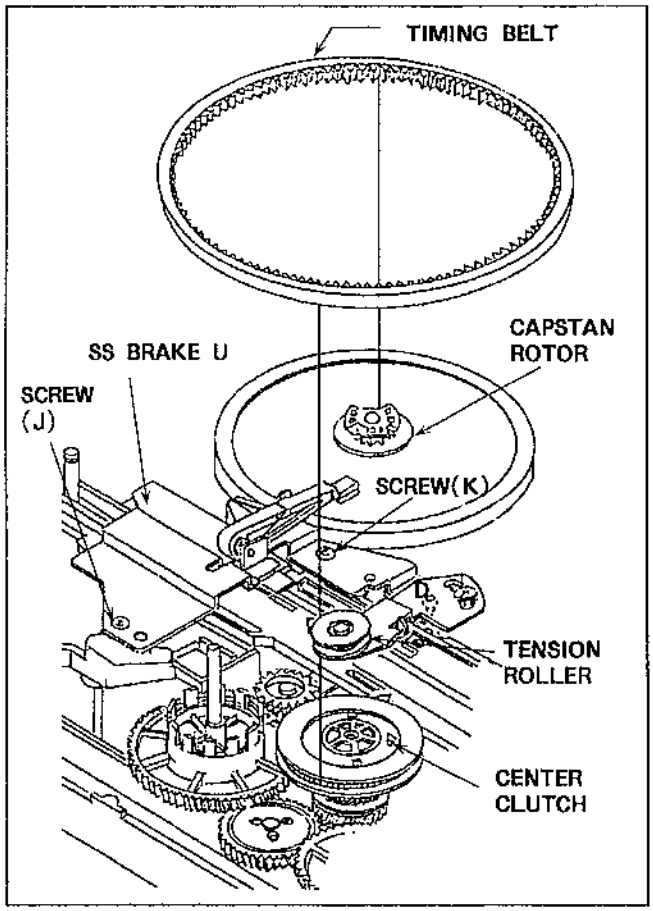


Fig.M13

2-14. Replacement of Supply & Take-up Inclined Base Unit

1. Remove SS Brake Unit, Main Lever Unit and Supply and Take-up Loading Arm Unit refer to SECTION 2. and 3. in this service manual.
2. Remove the Inclined Holder base (A) from back side of mechanism chassis.
3. Remove the Supply and Take-up Inclined Base Units.
4. The both Inclined Base Units can be reinstalled by reversing the removal procedure.

<NOTE>
After reinstall the Inclined Base Unit should be perform Mechanical adjustment.

3-2. FINE ADJUSTMENT of P2 and P3 POSTS
3-5. FINE ADJUSTMENT of A/C HEAD HEIGHT
3-6. HORIZONTAL POSITION ADJUSTMENT of A/C HEAD

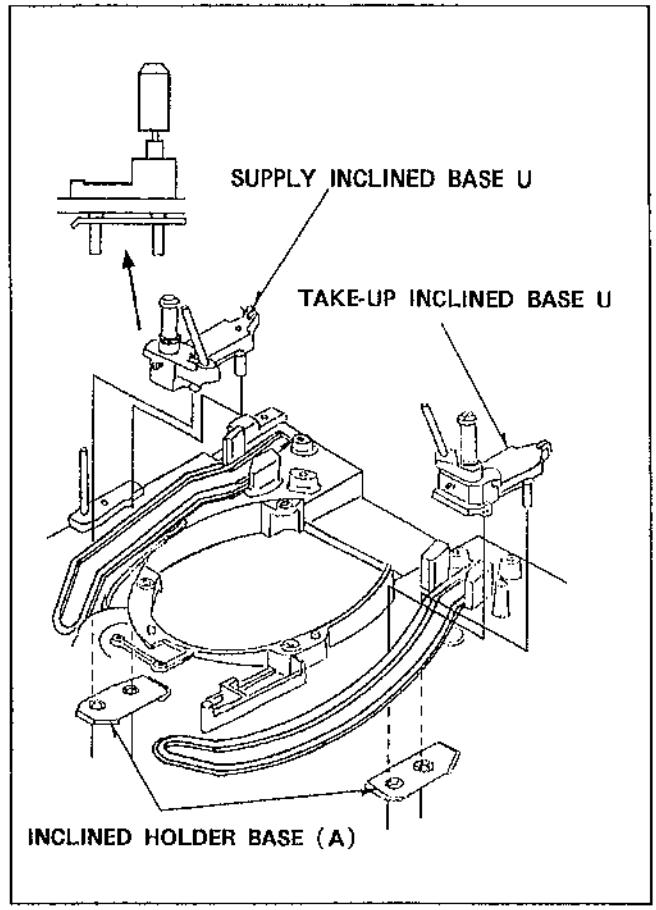


Fig.M14

SECTION 3
MECHANICAL ADJUSTMENT PROCEDURE

3-1. Coarse Adjustment of Tape Guide Post Height

1. Remove the Top Plate and Cassette Holder.
2. Turn the Loading Motor until the unloading completes.
3. Loosen the fixing screw of P2 and P3 Posts.
4. Rotate the P2 and P3 Posts clockwise to the end.
5. Rotate the P2 and P3 Posts twice counter-clockwise as shown in Fig.M15.
6. Install the Cassette Holder and Top Plate.
7. Playback the normal tape and make sure that the edge of not curing at the bottom or top end of the P1,P2,P3 and P4 Posts as shown in Fig.M17.

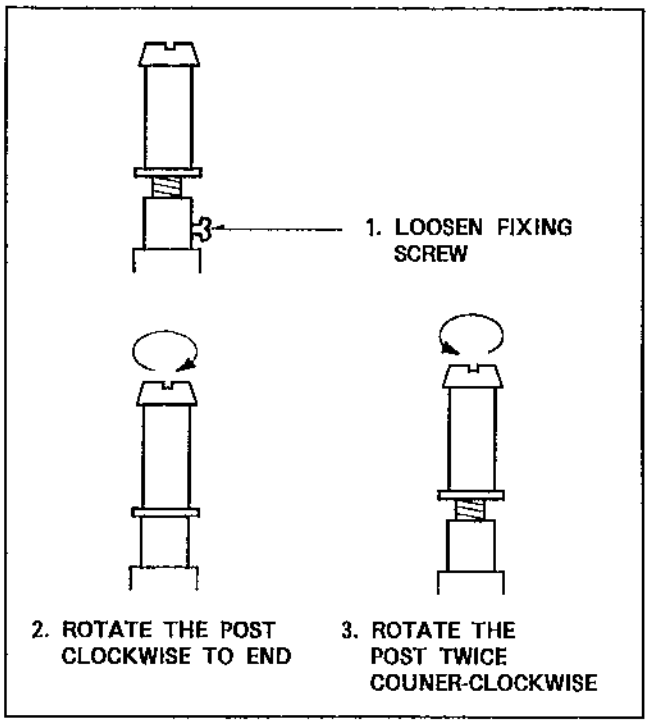


Fig.M15

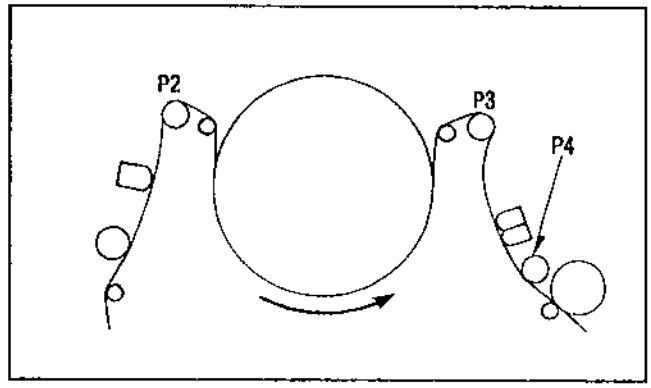


Fig.M16

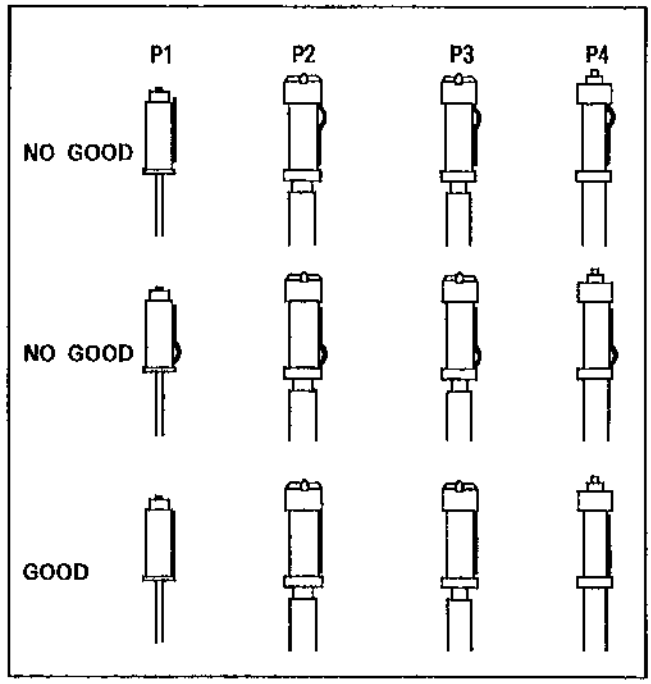


Fig.M17

3-2. Fine Adjustment of P2 and P3 Posts

1. Connect the oscilloscope to the Test Point of the HEAD AMP (Video RF Envelope) and the head switching pulse as a triggering signal.

<NOTE>
TEST POINT please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

2. Playback the 2nd portion of the alignment tape.
3. Press the tracking control button on the Front panel and adjust for maximum Video RF envelope.
4. If the RF envelope appears like example "A" or "B" in Fig.M18 then adjustment of the tape guide post (P3:Exit) is necessary.
5. Adjust the P3 post with the post adjustment screwdriver so that the RF envelope waveform at the exit portion becomes flat as shown in Fig.M18.
6. If the RF envelope appears like example "C" or "D" in Fig.M18 then adjustment of the tape guide post (P2:Entrance) is necessary.
7. Adjust the P2 post with the post adjustment screwdriver so that the RF envelope waveform at the entrance portion becomes flat as shown in Fig.M18.

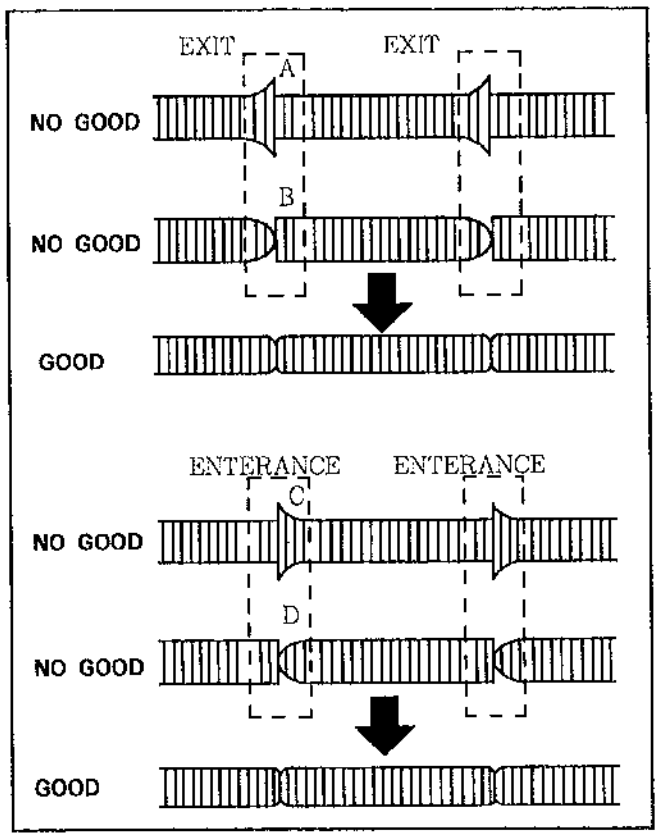


Fig.M18

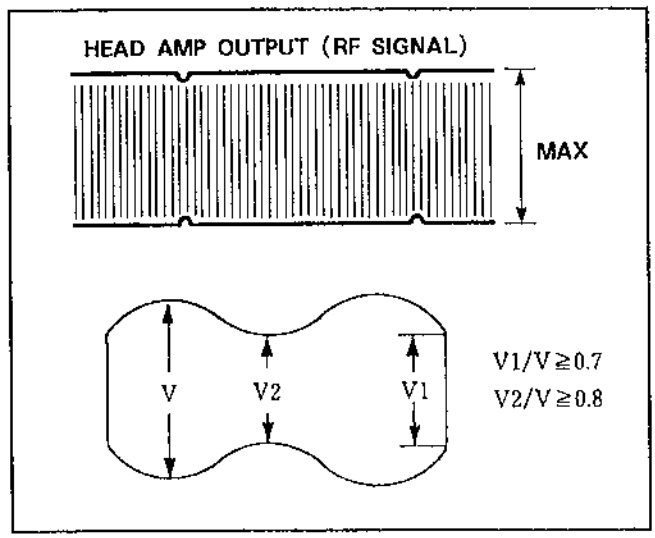


Fig.M19

3-3. Coarse Adjustment of A/C Head Height (1)

<NOTE>
This procedure should be performed only when the A/C Head is replaced.

1. Playback the normal tape.
2. Turn the 3 screws (A)(B)(C) mutually so that lower edge of tape running at lower edge of A/C Head and confirm a space as much as possible to flat between the A/C Head Unit and the A/C Head Base.

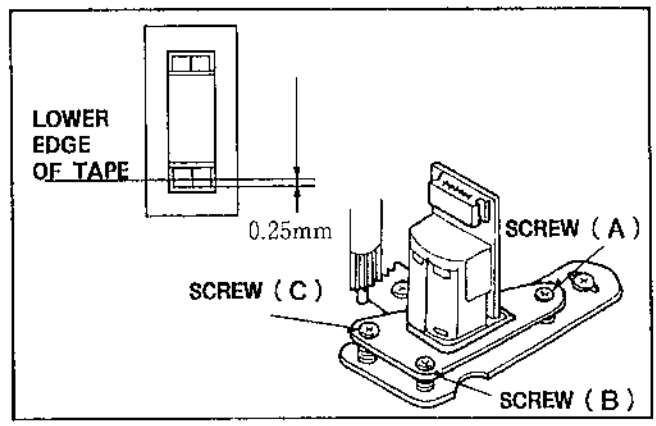


Fig.M20

3-4. Coarse Adjustment of A/C Head Height (2)

1. Playback the normal tape.
2. Rotate the screw (A) as shown in Fig.M20 until the wrinkle appears on the lower edge of tape at P4 Post.
3. Rotate the screw (B) until the wrinkle just disappear on the lower edge of tape at P4 Post.

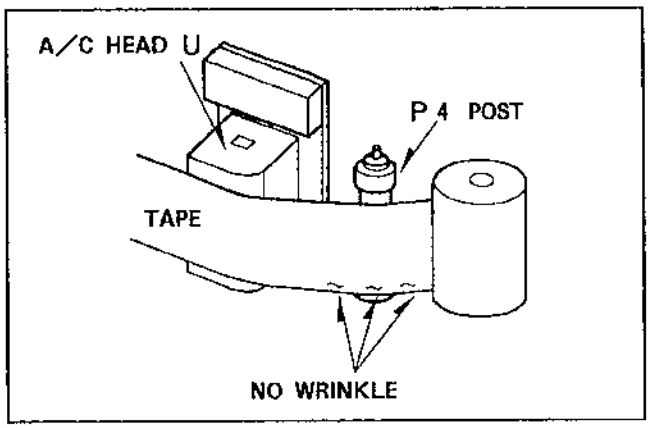


Fig.M21

3-5. Fine Adjustment of A/C Head Height

1. Connect the oscilloscope to the Audio output.
2. Playback the 2nd portion of the alignment tape.
3. Rotate the screw (C) so that audio signal becomes maximum.

<When moving the A/C Head up>

1. Rotate the screw (A) counter-clockwise until the wrinkle appears on the lower edge of tape at P4 Post.
2. Rotate the screw (B) counter-clockwise until just disappears on the lower edge of tape at P4 Post.
3. Rotate the screw (C) counter-clockwise until the audio signal is maximized.

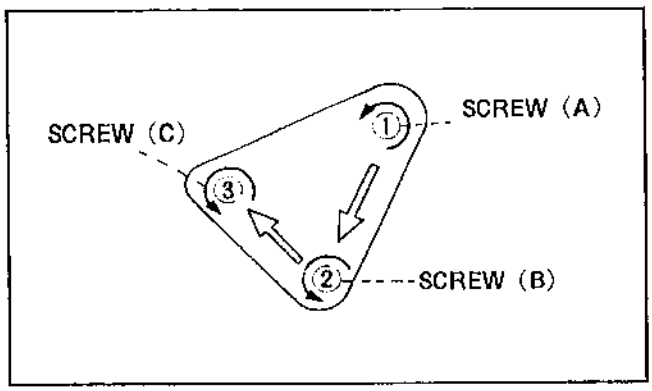


Fig.M22

<When moving the A/C Head down>

1. Rotate the screw (B) clockwise until the wrinkle appears on the lower edge of tape at P4 Post.
2. Rotate the screw (A) clockwise until the wrinkle just disappear on the lower edge of tape at P4 Post.
3. Rotate the screw (C) clockwise until the audio signal is maximized.

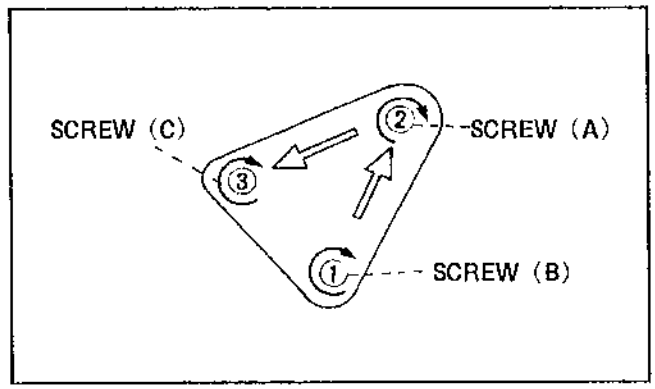


Fig.M23

3-6. Horizontal Position Adjustment of A/C Head.

<NOTE>
TEST POINT and JUMPER WIRE position, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

1. Set the tracking control into the center fix position by connect a jumper wire on the MAIN C.B.A.
2. Connect the oscilloscope to the Audio output, Video RF envelope on the Head Amp test point and head switching pulse on the Head Amp test point as for triggering.
3. Playback the 4th portion of the alignment tape.
4. Loosen the 2 screws (D)(E).
5. Adjust the A/C Head Base (F) so that the phase of audio drop-out and RF video drop-out becomes the same as possible. Fig.M24.
6. Playback the 2nd portion of the alignment tape.
7. Adjust the A/C Head Base (F) until the video RF signal is maximized.
8. Carefully tighten screw (D) with hold the A/C Head Base position with the Fine Adjustment Gear Driver then tighten screw (E).

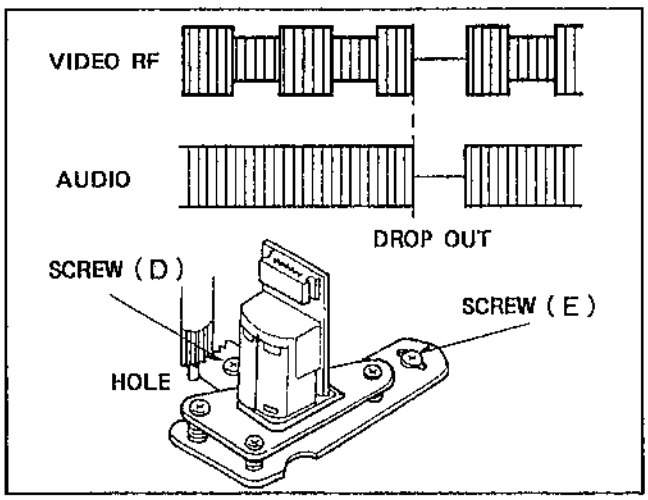


Fig.M24

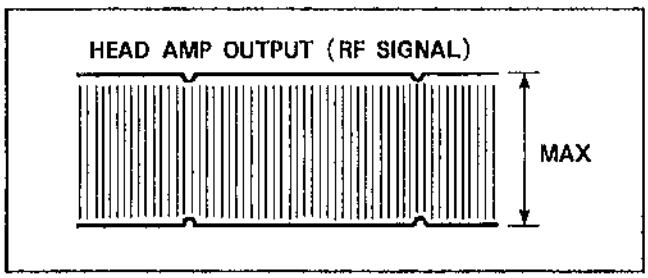


Fig.M25

3-7. Adjustment of Tension Post Position

1. Remove the Top Plate and Cassette Holder.
2. Turn the Loading Motor until the loading completes.
3. Adjust the hole of the Tension Band Unit by Hex wrench so that the left edge of the Impedance Roller and Tension Arm Unit as shown in Fig.M26.

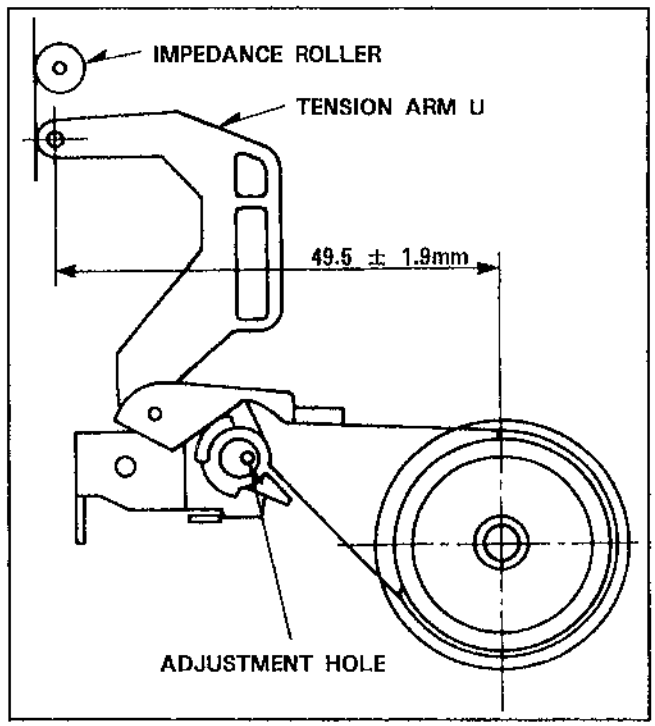


Fig.M26

3-8. Adjustment of Back Tension

1. Playback the cassette tape from the begging of tape and wait until tape movement has stabilized.
2. Insert the back tension meter into the path of the tape and confirm the back tension to be within specification as shown in Fig.M27.
3. If back tension is not in the specification, change the spring notch as shown in Fig.M28.

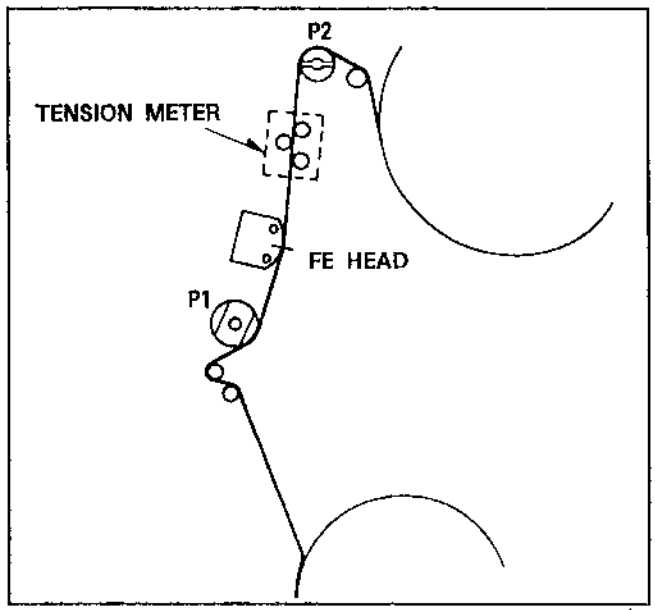


Fig.M27

<NOTE>
Specification of Back Tension, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

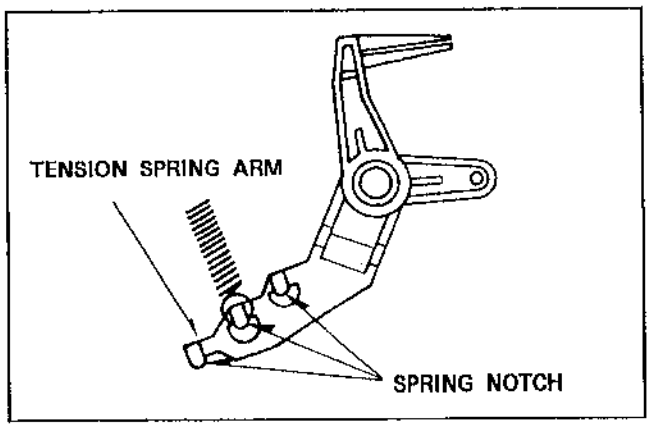


Fig.M28

3-9. Adjustment of Capstan Housing & Stator.

1. Install the Capstan Housing into the mechanical chassis and place the Capstan Stator into position.
2. Loosely tighten 3 screws (G).
3. Insert the Center Fixing Tool (VFK0851) as shown in Fig.M29.
4. Tighten 3 screws (G).
5. Remove the Center Fixing Tool.

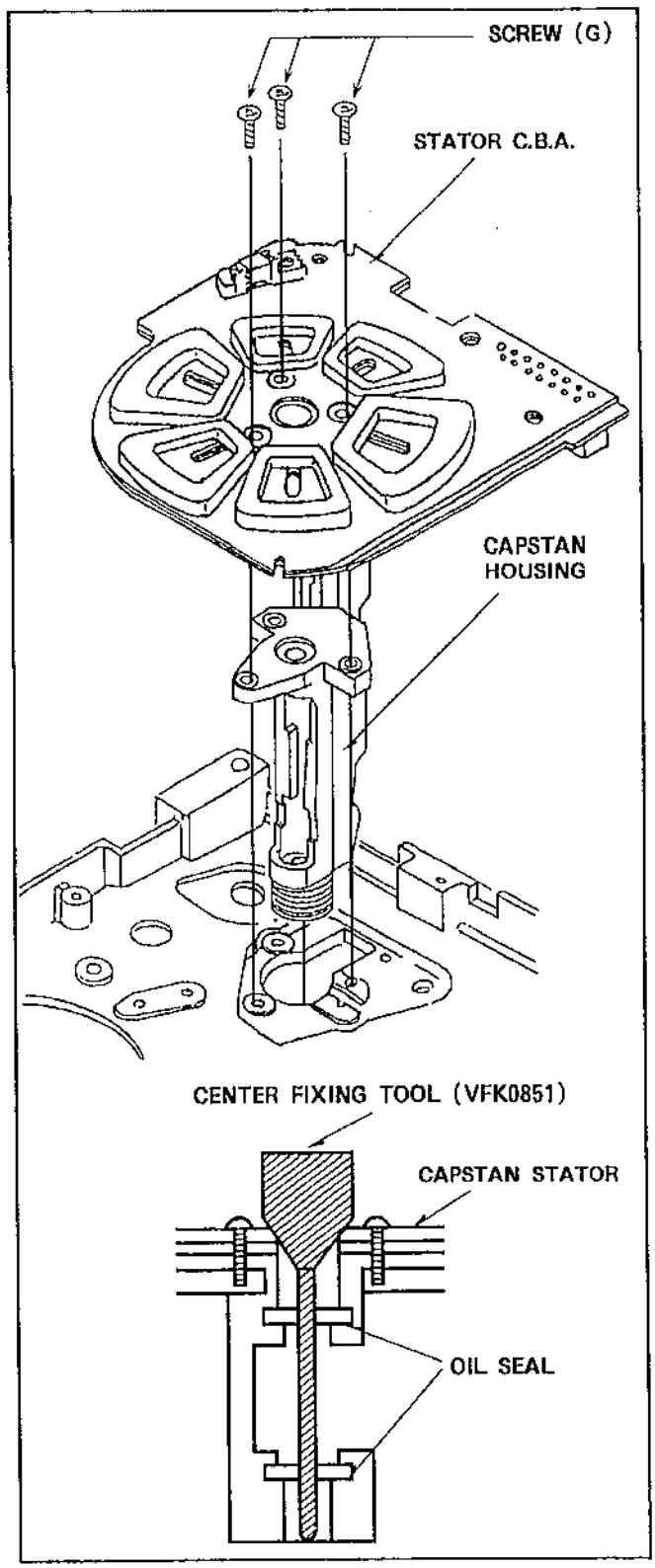


Fig.M29

3-10. Adjustment of Thrust Gap

1. Turn the Thrust Adjustment Screw clockwise to until the Capstan Rotor just separate from the Capstan Stator while rotating the Capstan Rotor by hand.
2. Turn the Thrust Adjustment Screw clockwise to 180 degrees from point at step 1.
3. Set the 2 Oil Seal to edge of the Capstan Housing as show in Fig.M30.

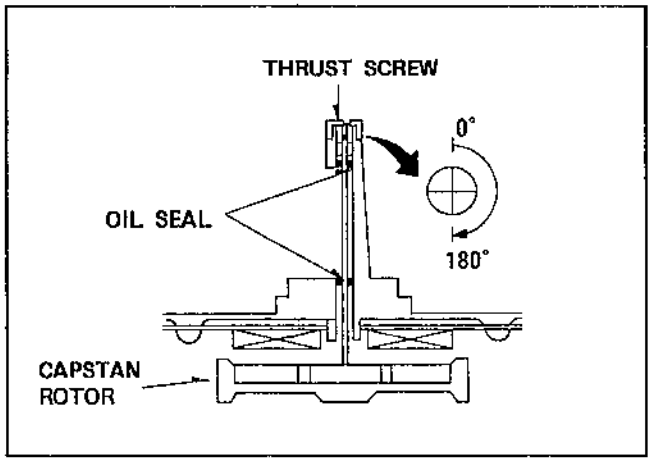


Fig.M30

3-11. Adjustment of FG GAP

1. Loosen screw (H) and set the Fine Adjustment Screw Driver in the hole on the Capstan Stator Unit.
2. Adjust the gap between FG Head and the Capstan Rotor.
3. After adjustment, tighten a screw (H).

<NOTE>
Specification of FG GAP, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

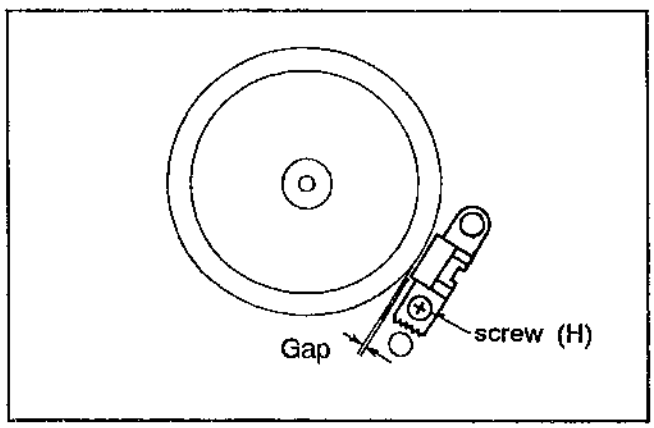


Fig.M31

3-12. Pressing Force Confirmation of the Pressure Roller

1. Playback the end portion of the 120 minutes tape.
2. Set the Fan type tension gauge to point (A) and push to direction indicated by the arrow (B) as shown in Fig.M32.
3. Confirm that reading of tension gauge is in specification at momentary stop the tape running.

<Note>
Specification of PRESSING FORCE, please refer to the MECHANICAL ADJUSTMENT INFORMATION which are shown in service manual for each model.

If the pressing force is not in specification, change the pressure spring.

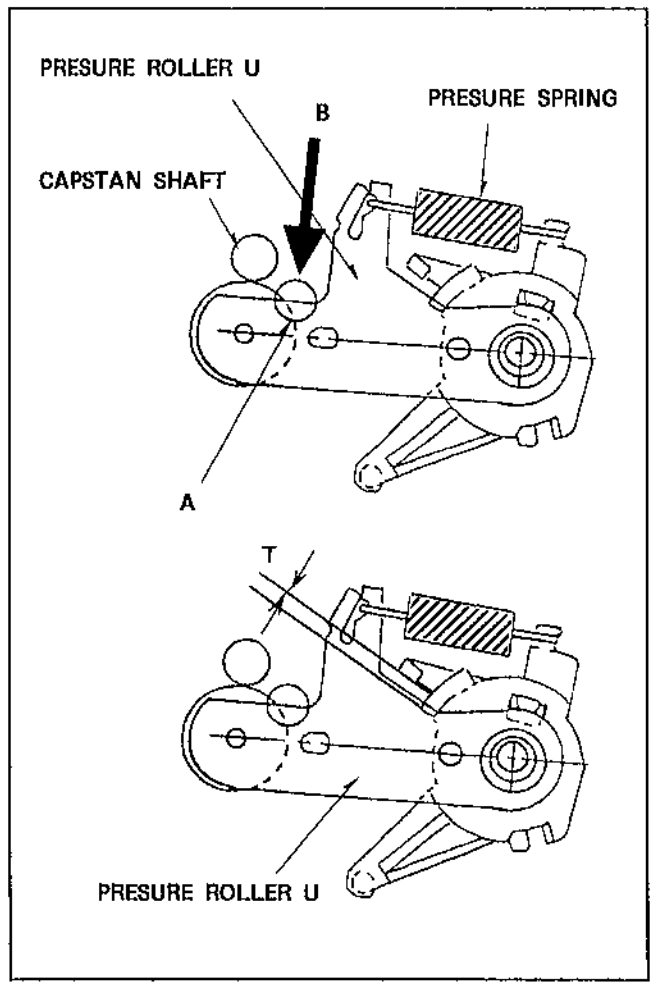


Fig.M32

SECTION 4
ASSEMBLY & PHASE ADJUSTMENT PROCEDURE

4-1. Assembly Procedures of Mechanism

The gear phase alignment is performed in the cassette down position and is crucial for the K-Mechanism to operate correctly.

1. Top view of gear phase alignment marks.
   There are alignment marks on the pinch cam gear and sub cam gear. there is one alignment mark on the carriage gear.

2. Bottom view of gear phase alignment marks.
   There are alignment marks on take-up loading gear and supply loading gear. There is an additional mark on the take-up loading gear that aligns with the mark on the main lever. There are alignment marks on the main cam gear and the sub cam gear. The mode switch gear mark aligns with a notch in the mode switch frame.

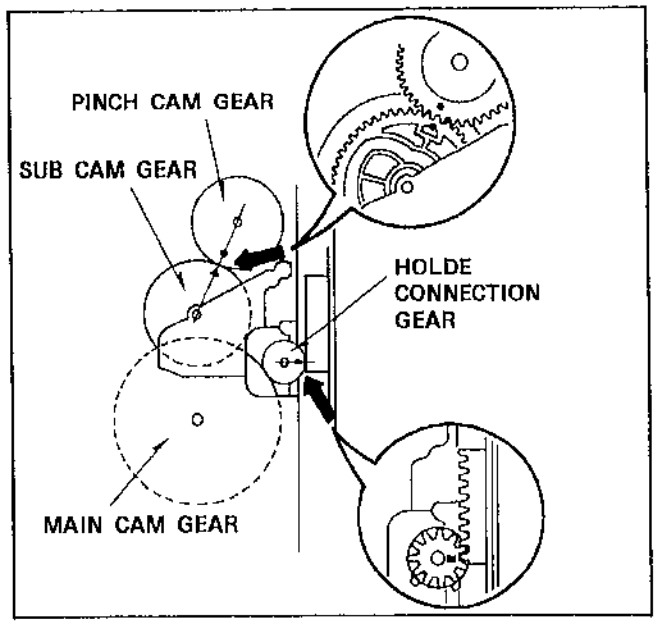


Fig.M33

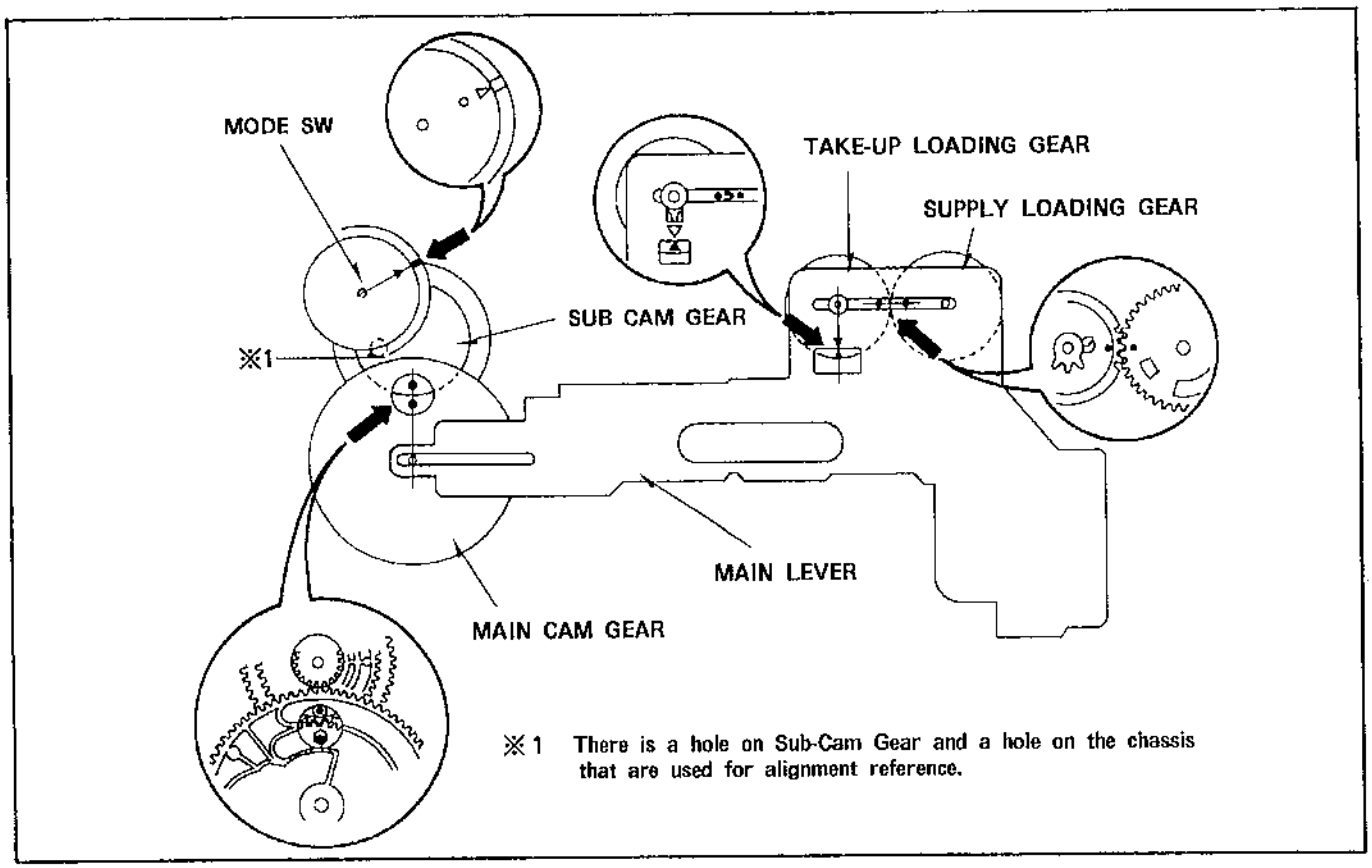

MODE SW
TAKE-UP LOADING GEAR
SUPPLY LOADING GEAR
SUB CAM GEAR
※1
MAIN LEVER
MAIN CAM GEAR
※1 There is a hole on Sub-Cam Gear and a hole on the chassis that are used for alignment reference.

Fig.M34

4-2. Assembly of parts on the Top Chassis

1. Install the Pinch Cam Gear onto shaft (A) and the P5 Arm Unit onto shaft (B).
2. Install the P5 Stopper Base with the cut washer (D) and screw (C).
3. Install the P5 Stopper on the P5 Stopper Base with latch (E).

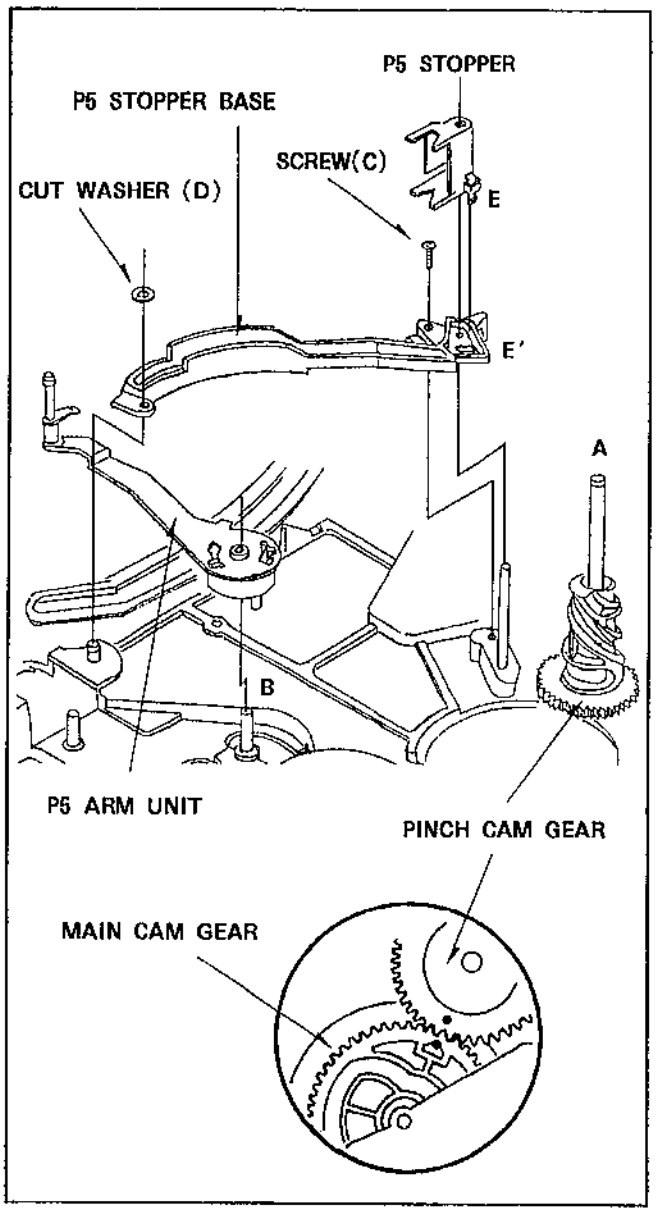


Fig.M35

4-3. Assembly of parts on the Bottom Chassis

1. Install the Idler Arm Unit onto shaft (F).
2. Install the Take-up and Supply Reel Gears onto shaft (G) and (H).
3. Install the Idler Regulator Level onto shaft (I) then install the Direct Lever.
4. Install the Center Clutch onto shaft (F) with the cut washer.

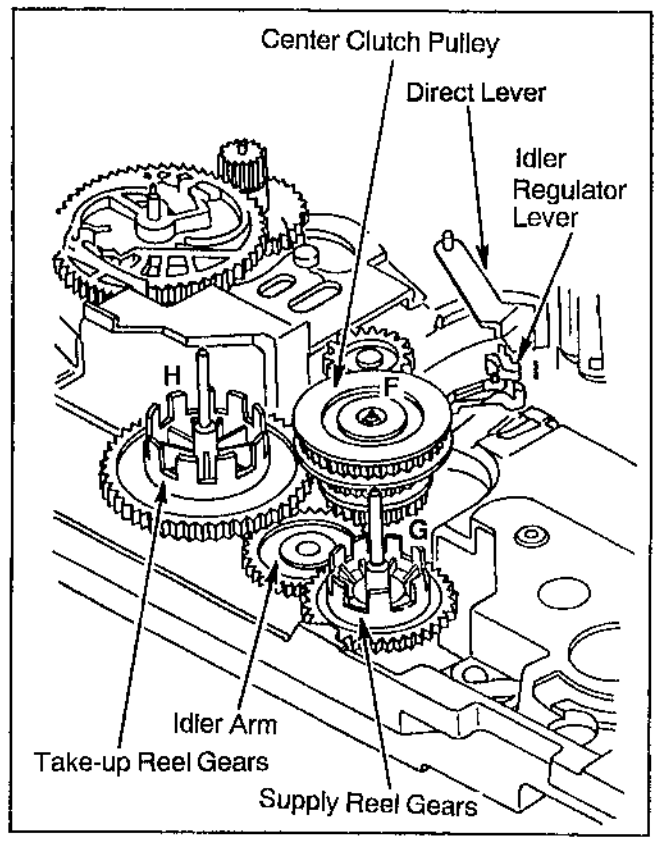


Fig.M36

4-4. Assembly of Main Cam Gear and Sub Cam Gear

1. Install the Sub Cam Gear on to shaft (J) so that the chassis hole aligns with hole in the Sub Cam Gear.
2. Rotate the Holder Connection Gear to position of arrow mark as shown in Fig.M37.
3. Install the Main Cam Gear onto shaft (K) so that the hole of the Main Cam Gear aligns with the hole in the Sub Cam Gear. Also insert the boss of the Take-up Tension Regulator Arm into the slot on the Main Cam Gear.

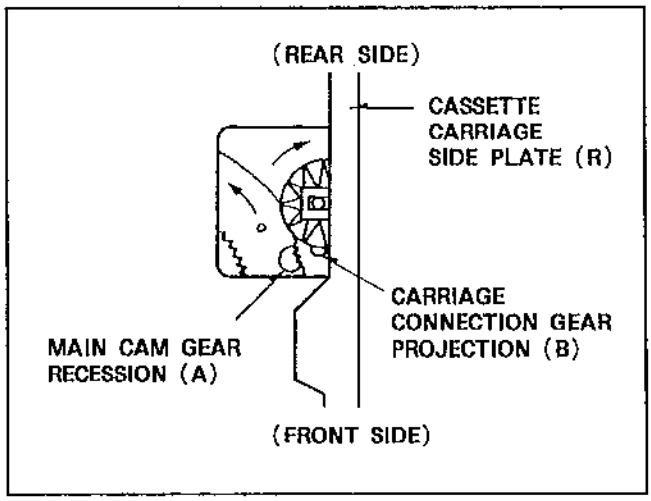


Fig.M37

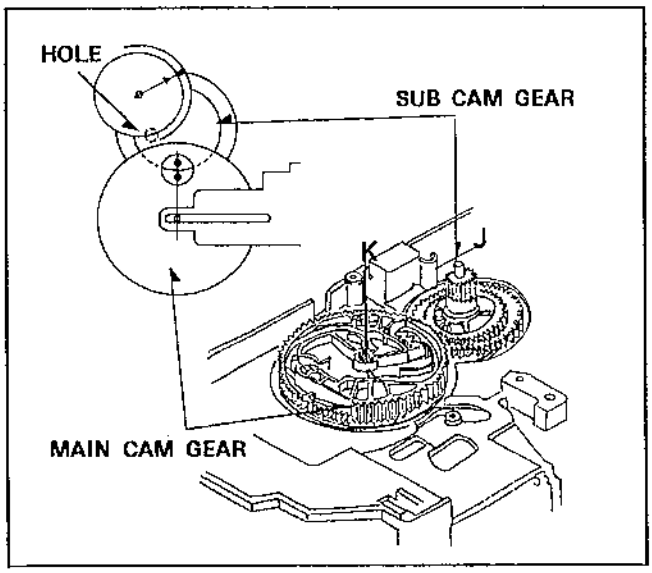


Fig.M38

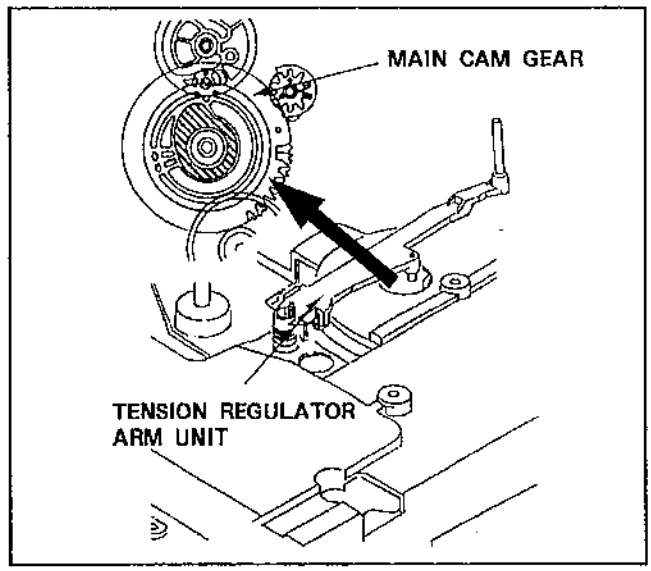


Fig.M39

4-5. Assembly of Mode Switch

1. Align a triangle mark on the Mode Switch Gear with the notch on the Mode Switch frame.
2. Confirm the Main and Sub Cam Gears aligned properly then install the Mode Switch with screw (L).

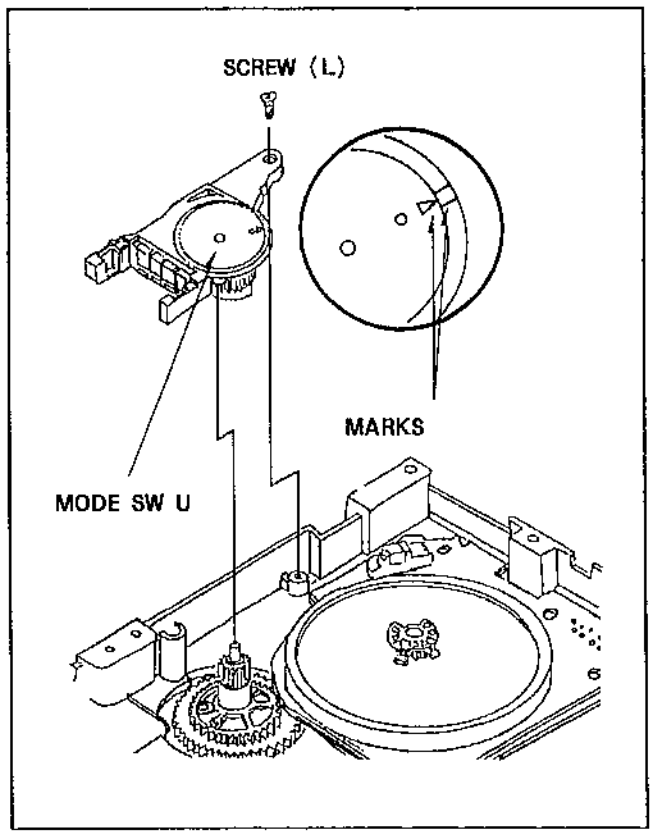


Fig.M40

4-6. Assembly of Take-up and Supply Loading Gears.

1. Install the Supply Loading Gear onto the shaft (S).
2. Install the Take-up Loading Gear onto the shaft (T) so that hole on the Take-up Loading Gear align with the hole on the Supply Loading Gear.
3. Install the Supply Loading Arm onto shaft of the Supply Inclined Base with washer.
4. Insert the Take-up Loading Arm onto shaft of the Take-up Inclined Base with washer.

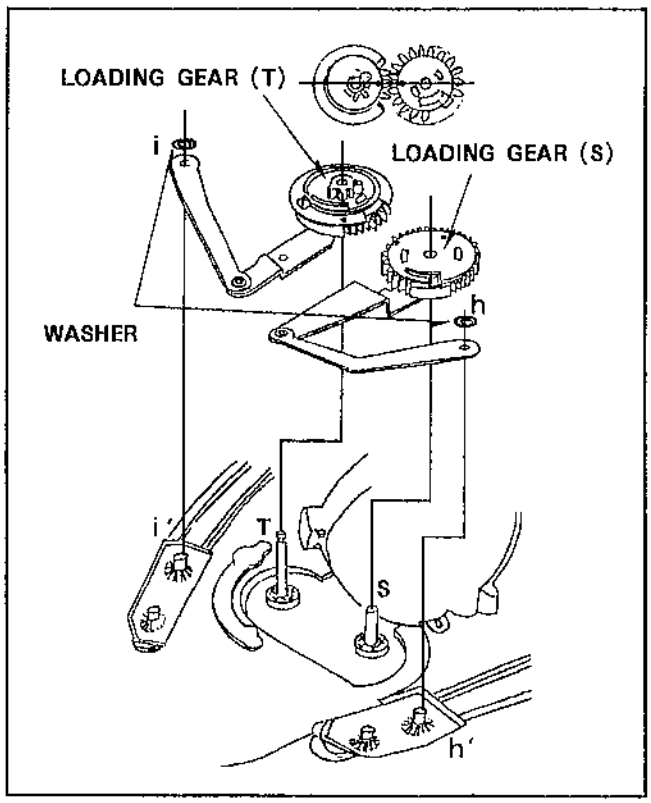


Fig.M41

4-7. Assembly of Main Lever

1. Install the Main Lever Arm checking that the boss of arms and shafts are in correct position and mark on the Main Lever Arm is aligned with mark on the Take-up Loading Gear.
2. Insert the 2 cut washer as shown in Fig.M42.

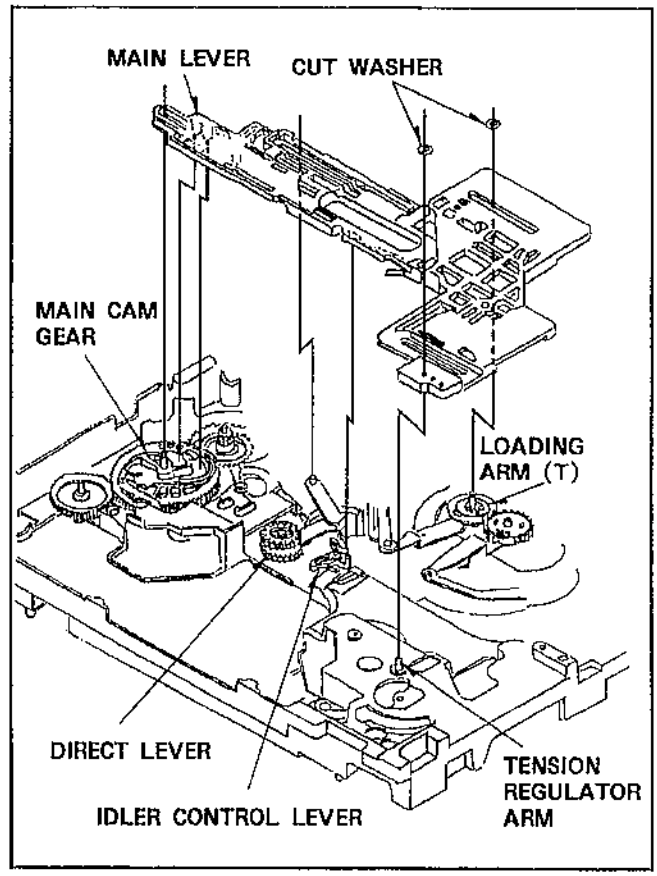


Fig.M42

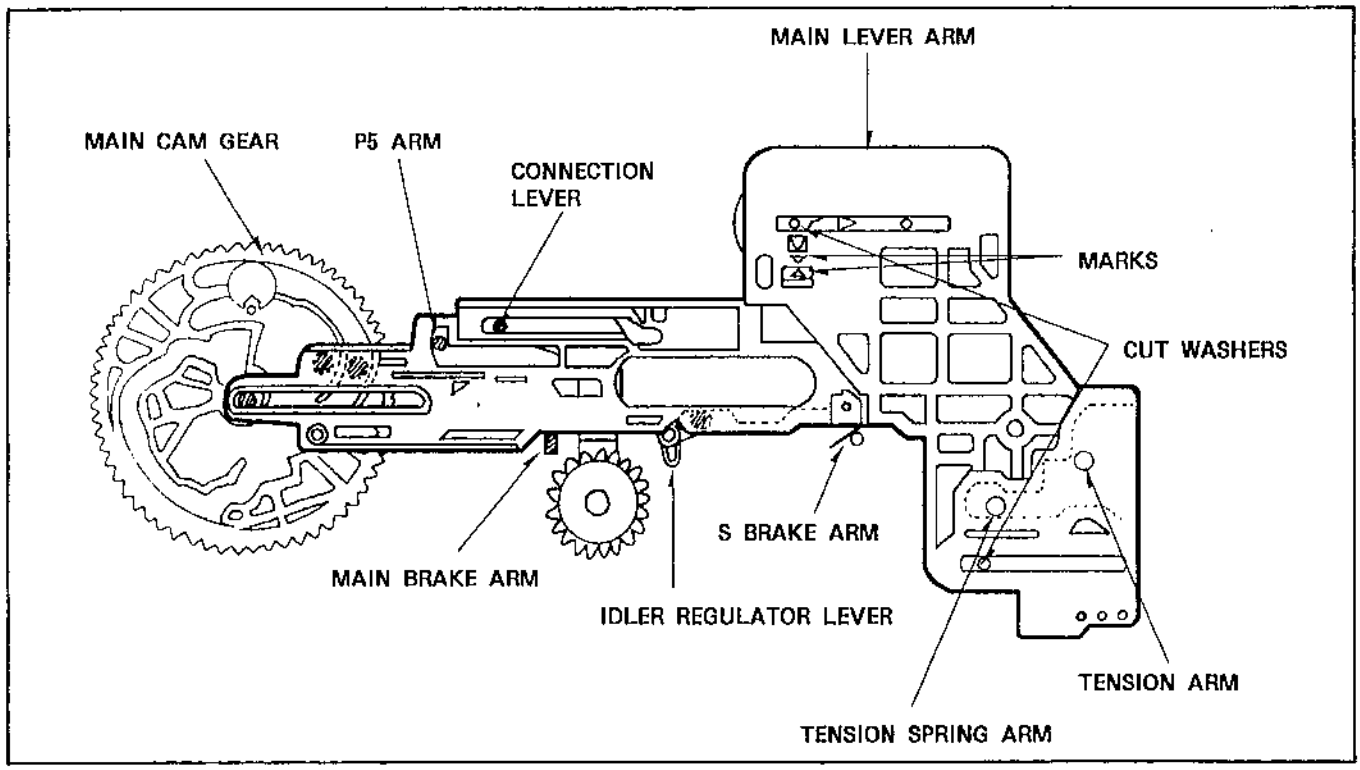


Fig.M43

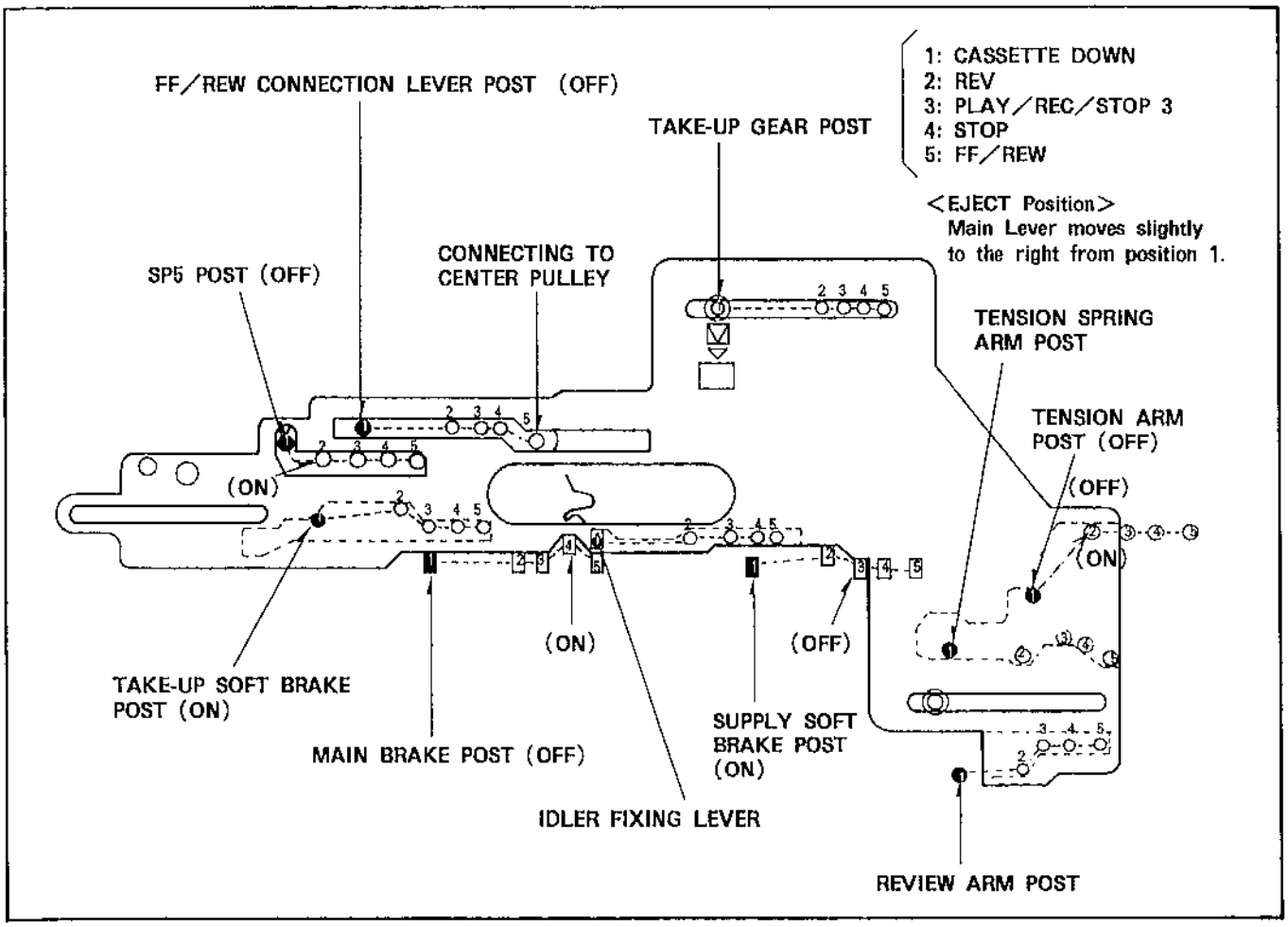


Fig.M44

4-8. Reinstall of the Cassette Compartment

1. Push the locking tabs to direction as shown in Fig.M45 and remove the Top Plate.

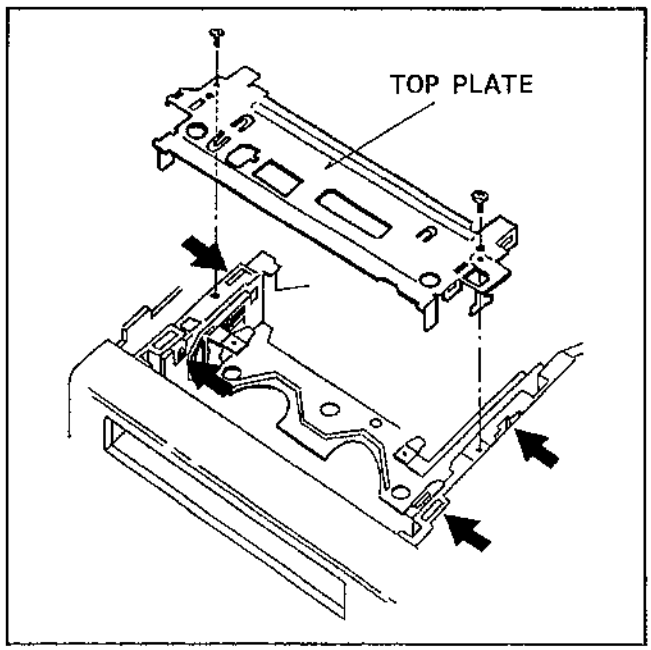


Fig.M45

2. Lift up the Cassette Holder Unit as shown in Fig.M46.

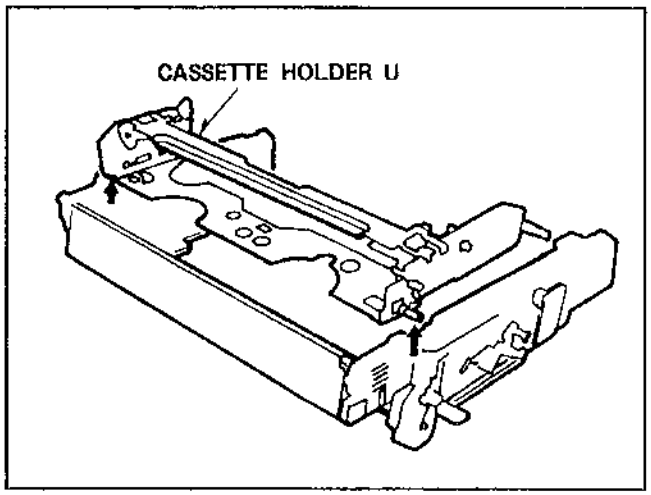


Fig.M46

3. Press the Wiper Arm to direction indicated by arrow mark so that the Wiper Arm comes to cassette down position completely as shown in Fig.M48. Confirm a triangle mark on the Wiper Arm aligns with the mark on the Rack (B) Unit.

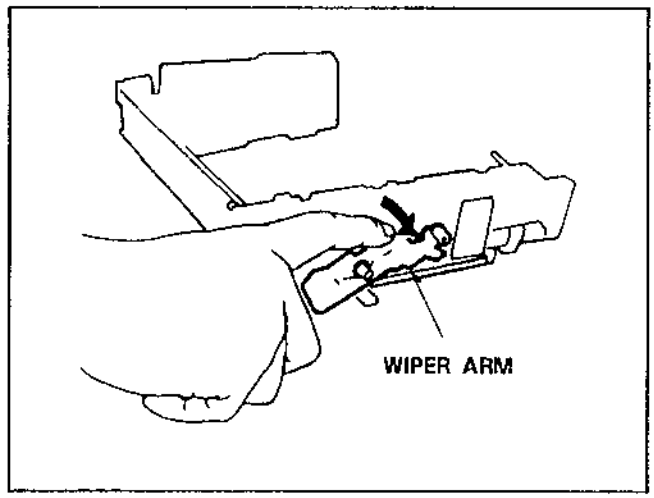


Fig.M47

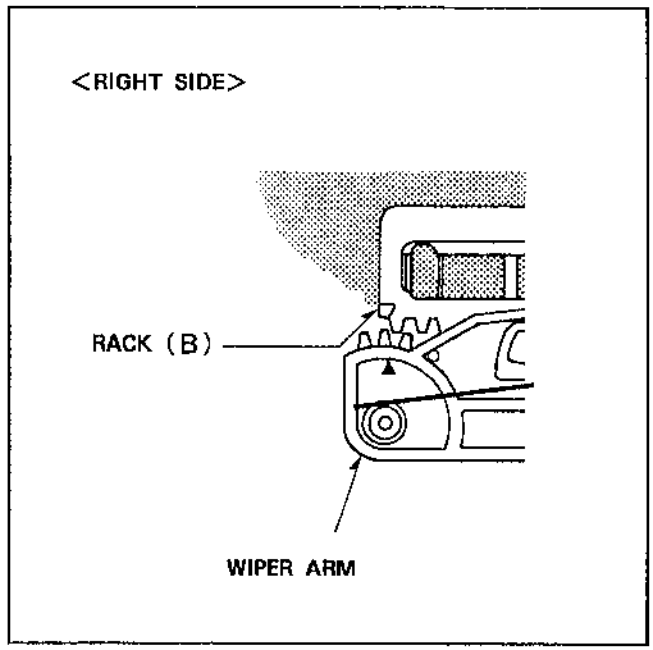


Fig.M48

4. Install the cassette compartment (without cassette holder) to the mechanical chassis so that mark on the Holder Connection Gear should line up with first tooth of the Rack Gear as shown in Fig.M49.

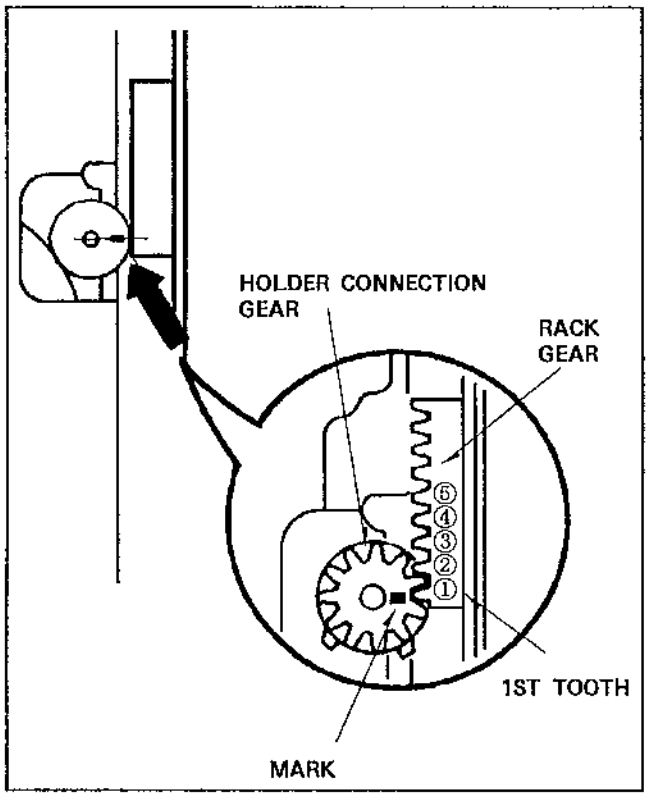


Fig.M49

5. Tighten 4 screws as shown in Fig.M50.
6. Manually move the loading mechanism toward the EJECT position by turn the Loading Motor and stop just before completion, so that the Wiper Arm straight up.
7. Install the Cassette Holder Unit in the Cassette Compartment Base as shown in Fig.M51.
8. Install the Top Plate on the Cassette Compartment Base.
9. Manually confirm that front loading and main loading run smoothly.

<NOTE>
For proper front loading, the guide pin on the opener lever should follow the upper track of the right side panel as shown in Fig.M52.

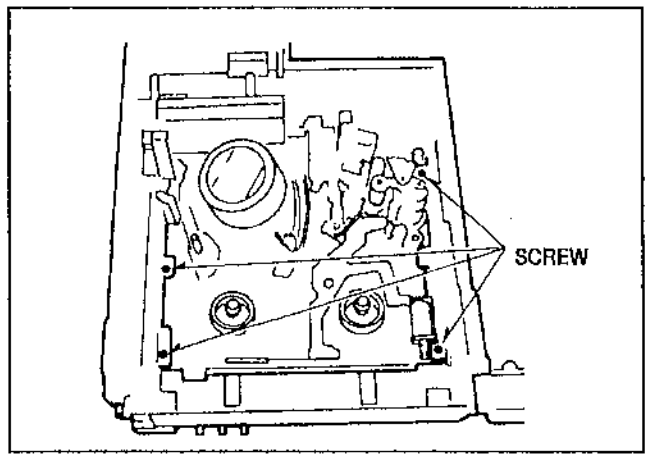


Fig.M50

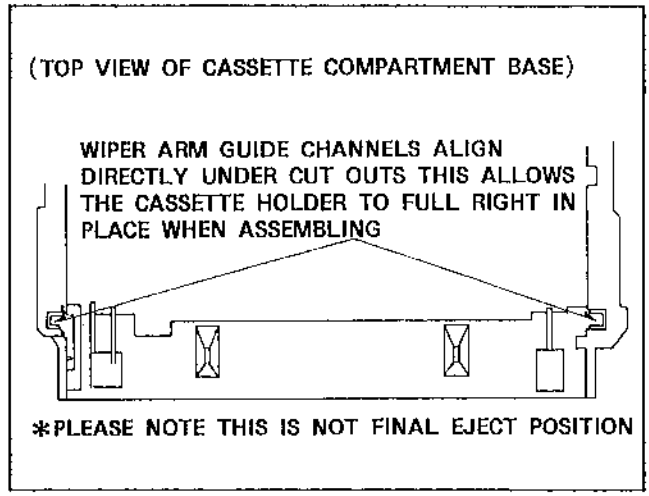

(TOP VIEW OF CASSETTE COMPARTMENT BASE)
WIPER ARM GUIDE CHANNELS ALIGN DIRECTLY UNDER CUT OUTS THIS ALLOWS THE CASSETTE HOLDER TO FULL RIGHT IN PLACE WHEN ASSEMBLING
*PLEASE NOTE THIS IS NOT FINAL EJECT POSITION

Fig.M51

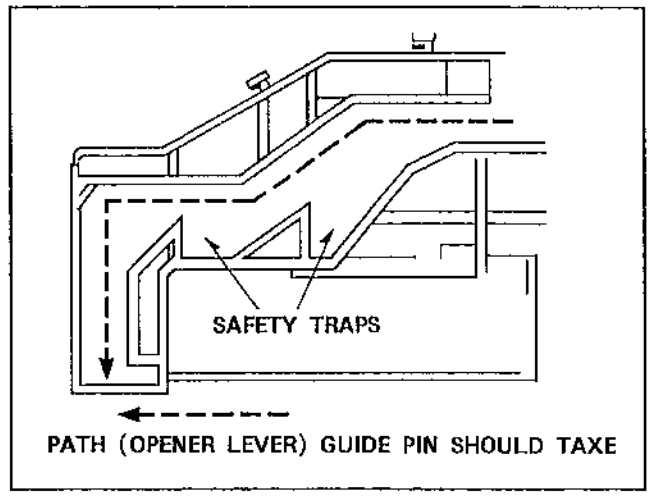


Fig.M52